A TOUCH-STONE FOR *Gold* and *Silver* Wares.

Directing how to know Adulterated and unlawful GOLDSMITHS Works, and the greatness of the Cheat therein; and how to punish the Offenders, and recover Recompence to the party wronged.

BEING

A Treatise of great Use for every Buyer of PLATE, and all Buyers and Wearers of *Silver-Hilts*, and *Silver-Buckles*, and all other kind of *GOLDSMITHS* Works.

The second Edition with Additions,

Comprising the principal matters relating to the Goldsmiths and Cutlers Trades, and material things concerning all other Manual Trades.

By *W. B. of London*, Goldsmith.

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To the READER.

THere having not heretofore (that ever I could hear of) been exposed to publick view any *Treatise* of this kind: This therefore may occasion more than ordinary Curiosity in inspecting the particulars thereof, and perhaps dispose the *Reader* to the Considerations following.

First, *Whether the matter of it touching the Goldsmiths Craft, be true?*

Secondly, *What should incite me to this attempt?*

Thirdly, *Whether it be not against the Rules of a Mystery thus publickly to discover them?*

Fourthly, *Whether it may not (instead of the good proposed) become a disparagement to the Manufacture, and so a prejudice to the Traders therein?*

Fifthly, *Whether this may not reflect upon the Wardens of the Company, by supposing that they do not perform their Duty in suppressing these defects?*

As to the First, I refer the *Reader* to the *Statutes* and other Laws (for Regulating the Goldsmiths Craft) herein cited, and his own observation, (from what is here intimated) how the same have been pursued.

To the Second I have been moved hereunto not from particular interest, but from a desire of the Publick good, every honest mans private benefit, and of detecting deceit and falshood.

To the Third. What I have here discovered,

is not the honeſt Myſtery or Craft in Working and Faſhioning the Wares, (which in all Trades is to be conceal'd) but the publick Rules of our Laws, and good intentions of our Law-Makers to prevent Deceit in the exerciſe of that Myſtery which ill diſpoſed Craftſ-men in all Ages have been too prone to contrive and practice.

To the Fourth. It cannot be ſuppoſed, that for the Offences of ſome, all ſhould be condemned; or that if ſome Wares be deceitful, all ſnould be ſo made: For I aver, that ſome there be of this Trade (to their honor be it ſpoken) that have not, nor will not in this Trade of a Goldſmith vary from the Rules and Principles of Law and Honeſty, by working or ſelling adulterated Gold or Silver Works, though ſtrongly beſet with the temptations of gains for a more plentiful livelihood; and it cannot be denied, that a perſon brought up in a Trade to live honeſtly thereon (to ſee his Neighbours draw away his Cuſtomers by deceitful Wares under colour of cheapneſs, or leſſer profit for his work, when indeed he makes greater advantages thereby) and not be enſnared to do the like practices, argues more than an ordinary integrity and conſtancy.

And I am of this favourable opinion that many who have been Tranſgreſſors in this kind were meerly ſo of neceſſity to preſerve their Trades and Cuſtomers; and that ſuch their doings hath not been with, but altogether againſt their good inclinations, and would not a little rejoyce, and that of an honeſt principle, that a through reformation were made therein.

To the Fifth. It is well known the Wardens of the

the *Goldſmiths London*, have readily heard Complaints that were made to them therein, and puniſht the Offenders: And it is hoped the ſame conſtancy and zeal to a through Reformation will be in their Succeſſors. But the Workers and Sellers in this Trade being ſo numerous, and the Tranſgreſſors ſo ſubtil to conceal their deceipt, and evade the puniſhment, that the endeavours of the Wardens, as yet hath been, ſo ſtill will be but a weak remedy, unleſs a greater Authority be given to them, which I have in the enſuing Treatiſe humbly propoſed, and unleſs the Buyer or Cuſtomer who wears and uſes the Commodity be made capable of knowing the lawful Wares from the unlawful, and the true value of the Metal of either, and how to puniſh the Offenders by more ready and eaſie ways than heretofore, which is the chief intent of the enſuing Diſcourſe.

And for the encouragement of thoſe that have a lawful right to exerciſe the Goldſmiths Trade, I have in the enſuing Treatiſe given a plain deſcription of that Trade, and what are the proper Works thereof.

I have alſo carefully collected the Laws in force for reſtraining perſons from exerciſing that and all other Manual Trades that have not been brought up ſeven years as Apprentices thereto; and alſo the Laws in force for reſtraining Aliens from exerciſing the ſame; to the intent that as on the one hand I would prevent diſhoneſt Actions of the lawful Goldſmiths, ſo I would be a means to obtain their due Rights and Liberties in ſuppreſſing and preventing all intruders into their Trade.

Wherefore craving the favourable conſtruction of the Wardens of the Company of Goldſmiths, *London*, and all honeſt Workers and Sellers of *Goldſmiths* Work, for this my undertaking, I aſſure them and all my good Countrymen, that I value not the Calumny of ſuch who ſhall be diſpleaſed for diſcovering their deceitful and unlawful practices: My only aim and intention in this matter being to procure an honeſt Reformation in the making of Gold and Silver Works, and all other *Goldſmiths* Works whatſoever: then would they truly be the Ornament and Riches of this Kingdom.

And ſince to our Ornaments and Riches the means of ſafety is requiſite, I have in the enſuing Treatiſe humbly propoſed a Supplement to the Laws already made and in force touching the *Cutlers* Myſtery, and for the Manufacturing of Sword-Blades in this Kingdom; a work of late neglected: but if encouraged by the means I have propoſed, or ſome other way, it would be of great advantage, honor, and ſafety to this Nation, by the making all Weapons of War at home, and preventing our being impoſed upon by other Nations, and enriching them with the profit of that Work, and with our Coin that is tranſported for the ſame.

And having thus caſt in my Myte in ſo important and juſt a matter, I have diſcharged my Duty, and ſhall remain a devoted Servant to the Publick Good.

W. B.

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A Touch-

A

Touch-Stone

FOR

Gold & Silver Wares.

THAT there hath been, and is, a Great Abuſe to the People of this Kingdom in the Gold and Silver that is wrought into the ſeveral ſorts of Wares in uſe amongſt us, is no hard matter to manifeſt: For if there were inſpection made into the **Silver that is wrought into Buckles for Belts, Girdles, Shooes, Garters, and ſuch like: And Hilts for Swords, and the Pieces thereto belonging; And the Silver and Gold that is wrought into Watch-caſes, and the Pins and Studs that are put into ſuch Caſes: and the Gold that is wrought into Rings of all ſorts, and Lockets, and other Jewels: and the Silver that is wrought into Money-Boxes, Tobacco-Boxes, and**

Buttons, and Tags for Garments, Bodkins and Thimbles, Coral-Sockets, or Garnishes, (*besides the Brass-Wier put in such Sockets to fasten the Coral, and the Brass Clappers in the Bells*) Clasps, Chains, Dram-Cups, Chirurgeons Instruments; And all other sorts of small Work, both of Gold and Silver, and the great Plate that is made remote from London; and the value thereof truly Examined, a great part thereof would be found to want very much of the value it ought to be of, in respect both of the Standard, and the Price it was sold at, whereby the wearing buyer is abused and defrauded, and the Laws infringed for the private benefit only of deceitful and ill-minded men. To direct therefore in the discovery of False Wares, and to prevent the evils arising thence, I have framed this Discourse, which chiefly consists of three Parts; As,

First, *Of what Gold and Silver is produced, and what it is in its own Nature, and the Sort or Standard, that is or ought to be in use amongst us.*

Secondly, *A recital of the* Statutes *and other Laws in force for preventing the working and* [illegible] *Gold and Silver Work, that is worse* [illegible] *Standard, and the Laws comprising* [illegible] *ipal matters relating to the Goldsmiths* [illegible] *s Trade, and material matters of all* [illegible] *inual Trades.*

Third-

Thirdly, *Some* Notes *giving light to thoſe Laws and Statutes, and directing how to prevent deceipt in Gold or Silver Work, and the way of Redreſs for ſuch, and other the offences againſt thoſe Laws.*

The original production of Gold and Silver is thus, *viz.* The four Elements generate a Seed by the will of God, and operation of *Nature*, and by their motion (every one according to its quality) caſts forth a Semen into the center of the earth, where it is digeſted, and by motion is ſent abroad.

Now the center of the earth is a certain empty place, where nothing can reſt, and the four elements ſend forth their qualities into the circumference of the center: And the magnetick property of any place of the earth attracts ſomething convenient to it ſelf for the bringing forth of ſomething. As for example,

Set upon an even Table a veſſel of Water, which place in the middle thereof, and round about it lay divers things, and divers colours; alſo Salt, *&c.* every thing by it ſelf; then pour the Water into the middle, and you ſhall ſee the water run every way; and when any ſtream toucheth the Red Colour, it will be made red by it; if Salt, it will contract the taſte of Salt from it, and ſo of the reſt: Now the water doth not change the places, but the diverſity of places changeth the Water.

In like manner the Seed being caſt forth by the four Elements from the center of the Earth, unto the ſuperficies thereof, paſſeth through various

places; and according to the nature of the place, is any thing produced; if it come to a pure place of earth, a pure thing is made.

The ſeed of all things is but one, and yet it generates divers things, as it appears by the former example: The Sperm whilſt it is in the center is indifferent to all forms; but when it is come to any *determinate place*, it changeth no more its form.

The Seed whilſt it is in the center, can as eaſily produce a Tree as a Metal, and an Herb as a Stone; and one more precious than another, according to the purity of the place. Now this *Seed* is produced of the Elements thus.

Theſe four Elements are never quiet, but by reaſon of their contrariety, mutually act one upon another; and every one of its ſelf, ſends forth its own ſubtilty or Seed, and they agree in the center. Now this center is the ſervant of Nature, which mixing thoſe Seeds together, ſends them abroad, and by diſtillation ſublimes them by the heat of a continual motion into the ſuperficies of the earth; for the Earth is porous, and this vapour is, by diſtilling through the pores of the Earth, reſolved into water; of which all things are produced: Therefore, as I ſaid before, the Seed of Metals is not different from the Seed of all things being, *viz.* a humid Vapour.

The ſpecification of this Vapour into diſtinct Metals is thus: This vapour paſſeth in its diſtillation through the Earth, through places either *Cold or Hot*; if through *Hot and pure*, where the fatneſs of Sulphur ſticks to the ſides thereof, then that Vapour (which Philoſophers call the Mercury

cury of Philoſophers) mixeth and joyneth it ſelf unto that fatneſs, which afterwards it ſublimeth with it ſelf, and then it leaving the name of a vapour and unctuoſity, and afterwards coming by ſublimation into other places, where the Earth is ſubtil, pure, and humid, fills the pores thereof, and is joyned to it, and ſo it becomes GOLD; and where it is hot and ſomething impure, it becomes SILVER; but if that fatneſs come to impure places, which are cold, it is made LEAD; and if that place be pure and mixed with Sulphur, it becomes COPPER: for by how much the more pure and warm the place is, ſo much the more excellent doth it make the Metals.

This *Heat* is from within the Earth, and not the heat of the Sun, as ſome imagine; becauſe in the hotteſt Countries there is all, or almoſt all Gold generated; who if they conſider that in cold Countries are Gold Mines; as in *Scotland* were in King *James* his time, would be of another mind, than to think that the Cœleſtial Sun could penetrate ſo as to heat the Earth ſo deep as moſt Gold lies: but yet I deny not, that the ſecret influence of the Sun is very powerful in the generating of Gold: and ſo the other Planets of other Metals, be they never ſo deep in the Earth

Now the firſt matter of Metals, is a humid, viſcous, incombuſtible, and ſubtil ſubſtance, incorporated with an earthy ſubtilty; being equally and ſtrongly mixed in the caverns of the Earth.

In all Metals (except Gold) there is a two-fold unctuoſity; the one which is external, ſulphurous and inflamable, which is joyned to it by accident, and doth not belong to the total union, with the

tereſtrial parts of the thing; the other is internal, and very ſubtil, incombuſtible; being of the ſubſtantial compoſition of Argent-Vive; and therefore cannot be deſtroyed by fire, unleſs with the deſtruction of the whole ſubſtance.

Whence it appears what the cauſe is, that Metals are more or leſs durable in the fire; for thoſe that abound with that internal unctuoſity, are leſs conſumed; as it appears in Silver, and eſpecially in Gold.

Hence it is that the Philoſophers could never by any means find out any thing that could endure the fire, but that unctuous humidity only, which is perfect and incombuſtible.

Imperfect bodies have ſuperfluous humidities, and ſulphurity, generating a combuſtible blackneſs in them, and corrupting them: they have alſo an impure, feculent, and combuſtible terreſtriety: ſo groſs that it hinders ingreſſion, and fuſion.

But a perfect Metal (as Gold) hath neither this ſulphurous or terreſtrial impurity; I mean, when 'tis fully maturated and melted: for whilſt it is in concoction, it hath both joyned to it, as you may ſee in Golden Ore: but then they do not adhere to it ſo, but that it may be purified from them, which other Metals cannot, but are both deſtroyed together, if you attempt to ſeparate the one from the other.

Beſides, Gold hath ſo little of theſe corruptible principals mixed with it, that the inward Sulphur or metalline-ſpirit doth ſometimes, in ſome places overcome them of it ſelf; as is to be ſeen in the Gold, which is found very pure ſometimes

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in the ſuperficies of the Earth, and in the Sea-Sands, and is many times as pure as any Refined Gold. Now this Gold which is found in the Sands and Rivers, is not generated there, but is waſhed down from the Mountains with ſtreams of Water that run from thence.

Gold therefore is moſt noble and ſolid of all Metals, and (in the higheſt degree of fineneſs) of *a deep yellow colour*; compacted of principals digeſted to the uttermoſt height, and therefore fixed.

Silver is (in the higheſt degree of fineneſs) *pure white*, and in the next degree of dignity to Gold, and differs from it in digeſtion chiefly: I ſaid chiefly, becauſe there is ſome ſmall impurities adhering to it. Nevertheleſs,

Silver is a Mineral of that excellent Nature, that when it is in the higheſt degree of fineneſs, it will endure melting a long time in extreme heat, with but very little waſte; which quality is not in any other Metal, ſave Gold, which (in the fineſt degree) is more fix'd, and will endure the fire with leſs waſte: Wherefore Gold and Silver for theſe excellencies, and their ſcarceneſs, and capableneſs of being wrought into ſo many ſorts of *Uſeful and Ornamental things* above other Metals, is one reaſon that it bears ſo great a value, and anſwers all things.

For a further account of the generation and vegetability, &c. of Gold and Silver, ſee *Webſter's Hiſtory of Metals*; collected out of the moſt approved Authors that have written on that ſubject. Printed for *W. Kettilby* at the Biſhops Head in S. *Pauls* Church-yard, *London*.

Our Fore-fathers conſidering that Silver in its fineſt degree would be too ſoft for uſe and ſervice

(for the fineſt Silver is almoſt as ſoft as Lead) did conſult to reduce or harden the Silver (by allaying it with baſer Metal) to ſuch a degree, that it might be both ſerviceable in the works, and alſo in the wearing keep its native whiteneſs: For as the Silver having too little Allay, would be too ſoft; ſo too much Allay would make it brittle, and wear like Braſs? And therefore upon Experiment and due Conſideration, did agree, that there ſhould be *Eighten penny weight of fine Copper mixed in eleven Ounces and two penny weight* Troy *of the fineſt Silver*; both which makes twelve Ounces, or the pound Troy; and ſo according to that proportion for more or leſs; (where it is to be obſerved, That either Tin, Pewter, or Lead being put into Gold or Silver for the Allaying thereof, or being mixt therewith, renders it extreme brittle, and altogether unfit for work) which degree of Allay is concluded upon by the Law-makers of this Kingdom, to be the Standard for all Silver Money, and all Silver Works, and is commonly called the *Sterling Allay* (from the *Eaſterlings*, or men that came from the *Eaſt*-part of *Germany* in the time of King *Richard* the Firſt, and were the firſt Contrivers and makers of that Allay;) And this is that which is meant in the Statute of 18 *Eliz.* Cap. 15. by the Expreſſion, (to wit) *Not leſs in fineneſs than that of eleven Ounces two penny weight.* And for this purpoſe, that, and divers other *Statutes* have been made, which I have here recited *verbatim*, as followeth.

The *Statute* 28 *Edw.* 1. *Cap.* 20. commonly called, *Articuli ſuper Cartas.*

It is Ordained, That no Goldſmith of England, nor none other where within the Kings Dominions, ſhall from henceforth make or cauſe to be made any manner of Veſſel, Jewel, or any other thing of Gold or Silver, except it be of good and true Allay, (that is to ſay) Gold of a certain touch, and Silver of the Sterling Allay, or of better at the pleaſure of him to whom the Work belongeth: and that none work worſe Silver than Money: And that no manner of Veſſel of Silver depart out of the hands of the Workers, until it be Aſſayed by the Wardens of the Craft: And further, that it be marked with the Leopards-Head; And that they work no worſe Gold than of the touch of Paris: And that the Wardens of the Craft ſhall go from Shop to Shop among the Goldſmiths, to Aſſay, if their Gold be of the ſame Touch that is ſpoken of before: And if they find any other than of the Touch aforeſaid, the Gold ſhall be forfeit to the King: [And that none ſhall make Rings, Croſſes, nor Locks:] And that none ſhall ſet any ſtone in Gold except it be Natural: And that Gravers, or Cutters of

These words of this *Statute* [*None ſhall make Rings, Croſſes, nor Locks,*] Repealed 21 *Jac.* 28.

of Stones, and of Seals, shall give to each their weight of Silver and Gold as near as they can upon their Fidelity: And the Jewels of base Gold which they have in their hands, they shall utter as fast as they can: And from thenceforth if they buy any of the same work, they shall buy it to Work upon, and not to sell again: And that all the good Towns of England, where any Goldsmith be dwelling, shall be ordered according to this Statute, as they of London be: And that one shall come from every good Town for all the residue that be dwelling in the same, unto London, for to be ascertained of their Touch. And if any Goldsmith be attainted hereafter, because that he hath done otherwise than before is Ordained, he shall be punished by imprisonment, and by ransome at the Kings pleasure. And notwithstanding all these things before-mentioned, or any point of them, both the King, and his Council, and all they that were present at the making of this Ordinance, will and intend that the Right and Prerogative of his Crown shall be saved to him in all things.

Stat. 37 *Edw.* 3. *Cap.* 7.

Item, It is accorded, That Goldsmiths as well in London as elsewhere within the Realm, shall make all manner of Vessels and other Work of Silver, well and lawfully of the Allay of good Sterling: And every

every Master-Goldsmith shall have a Mark by himself, and the same Mark shall be known by them which shall be assigned by the King to Survey their Work and Allay: And that the said Goldsmiths set not their Marks upon their Works till the said Surveyors have made their Assay, as shall be ordained by the King and his Counsel; and after the Assay made, the Surveyor shall set the Kings Mark, and after the Goldsmith his Mark, for which he will answer: And that no Goldsmith take for Vessel white and full for the weight of a pound, (that is to say) of the price of two Marks of Paris weight, but eighteen pence as they do at Paris? [And that no Goldsmith making White Vessel shall meddle with gilding, nor they that do Gild shall meddle to make White Vessel:] And they which shall be so assigned in every Town shall make their Searches as oftentimes as shall be Ordained: And for that which shall be in the Goldsmiths default, they shall incur the pain of forfeiture to the King, the value of the Metal which shall be found in default.

This Clause [*That no Goldsmith shall make White Vessel, and also Gild*] Repeal. 21 *Jac.* 18.

Stat.

Stat. 2 *Hen.* 6. 14.

The fineneſs of Harneſs of Silver, and that it ſhall be marked with the Leopards-Head.

Item, That no Goldſmith, nor Worker of Silver within the City of London, ſell any Workmanſhip of Silver, unleſs it be as fine as the Sterling, except the ſame need Sodder in the making, which ſhall be allowed according as the Sodder is neceſſary to be wrought in the ſame: And that no Goldſmith nor Jeweller, nor any other that worketh Harneſs of Silver, ſhall ſet any of the ſame to ſale within the City, before that it be Touched with the Touch, and alſo with the Mark or Sign of the Workman of the ſame, upon pain of Forfeiture of the double value as afore is ſaid: And that the Mark and Sign of every Goldſmith be known to the Wardens of the Craft. And if it may be found that the ſaid Kæper of the Touch, Touch any ſuch Harneſs with the Leopard's-Head, except it be as fine in Allay as the Sterling, that then the Kæper of the Touch for every thing ſo proved, not as good in Allay as the ſaid Sterling, ſhall forfeit the double value to the King, and to the party, as is above recited. And alſo it is likewiſe Ordained in the City of York, New-Caſtle upon Tine, Lincoln, Norwich, Briſtow, Salisbury and Coventry, That every one ſhall have divers Touches according to the

the Ordinance of the Mayors, Bailiffs, or Governors of the same Towns: And that no Goldsmiths, nor other Workers of Silver, nor Keepers of the said Touches within the same Towns, shall set to Sale, or Touch any Silver in other manner than is ordained before, within the City of London, upon pain of the said Forfeitures. And moreover, That no Goldsmith or other Worker of Silver within the Realm of England, where no Touch is ordained as afore is said, shall Work any Silver, except it be as fine in Allay as the Sterling: And that the Goldsmith or Worker of the same Silver set upon the same, his Mark, or Sign, before he set it to Sale: And if it be found that it is not as fine as the Sterling, that then the Worker of the same shall forfeit the double value, in manner and form, as before is recited, within the City of London. And the Justices of Peace, Mayors, and Bailiffs, and all other having power as Justices of the Peace, shall here enquire and determine, by Bill, Plaint, or in other manner, all that do contrary to the said Ordinances, and thereof to make due execution by their discretions. Provided always, That if the Master of the Mint that now is, or which for the time shall be, offend, or have offended in his Office of the said Mint, that then he be punished, and Justified according to the form of the said Indentures.

Stat.

Stat. 18 *Eliz.* 15.

WHereas certain evil disposed Goldsmiths deceitfully do make and sell Plate, and other Gold and Silver Wares, to the great defrauding of her Majesty, and her good Subjects: For remedy whereof, Be it Enacted by the Authority of this present Parliament, That no Goldsmith from the Twentieth day of April next coming, shall Work, Sell, Exchange, or cause to be Wrought, Sold, or Exchanged, any Plate or other Goldsmiths Wares of Gold, less in fineness than that of twenty two Carracts; and that he use no Sodder, Ammel, or other stuffings whatsoever in any of their Works, more than is necessary for the finishing of the same; And that they take not above the rate of Twelve pence for the ounce of Gold (besides the fashion) more than the Buyer may or shall be allowed for the same at the Queens Exchange or Mint, upon pain to forfeit the value of the thing so Sold or Exchanged: And that from the said Twentieth day of April, no Goldsmith shall Make, Sell, or Exchange in any place within this Realm, any Plate, or Goldsmiths Wares of Silver, less in fineness than that of Eleven Ounces two penny weight, nor take above the rate of Twelve pence for every pound weight of Plate, or Wares of Silver (besides the fashion) more than the Buyer shall or may be allowed for the same at the Queens Exchange or Mint; Nor put to Sale, Exchange or Sell any Plate

or

or Goldſmiths Work of Silver, before he hath ſet his own Mark to ſo much thereof, as conveniently may bear the ſame, upon pain to forfeit the value of the thing ſo Sold or Exchanged: And if any Goldſmith ſhall make any Goldſmiths Work or Plate, and the ſame after the ſaid Twentieth day of April, ſhall be Touched, Marked, and Allowed for good by the Wardens, or Maſters of that Myſtery: And if in the ſame there ſhall be found any falſhood or deceit, then the Wardens, and Corporation of that Myſtery for the time being, ſhall forfeit, and pay the value of the thing ſo Exchanged, or Sold: The one Moiety of all which Forfeitures ſhall be to the uſe of the Quéens Majeſty, and the other Moiety to the uſe of ſuch party grieved, and ſuſtaining loſs thereby, as will ſue for the ſame in any Court of Record, by Action, Bill, Plaint, Information, or otherwiſe; wherein no Eſſoyn, Protection, or Wager of Law ſhall be admitted for the Defendant.

Stat. 3 *Edw.* 4. 4. the branch thereof to this purpoſe is *verbatim* thus, (*viz.*)

Alſo our Lord the King hath ordained and eſtabliſhed, by the aſſent and Authority aforeſaid, that the Maſters and Wardens for the time being of every Craft and Myſtery in every City, Burrough, Town, and Village, where any ſuch Craft or Myſtery is uſed, or occupied, ſhall have ſuffi-

ſufficient Power and Authority in every ſuch City, Town, Burrough, and Village, where they for the time being ſhall be Wardens, or Maſters of any ſuch Craft or Myſtery: And the Mayor of ſuch City, Burrough, Town, or Village for the time being, if any Mayor be, or the Bailiffs, or Bailiff of any ſuch City, Burrough, Town, or Village for the time being, if any Bailiffs or Bailiff there be: And no Mayor, or Serjeant, or any other Officer to them aſſigned by the ſaid Mayor, Bailiffs, or Bailiff, in every ſuch City, Burrough, Town, and Village where any ſuch Craft or Myſtery is uſed or occupied, where no ſuch Maſters or Wardens of any ſuch Craft or Myſtery be: That the Maſters or Wardens of the Crafts and Myſteries of the City, Town, Burrough, or Village next adjoyning to the ſame; and the Conſtable of ſuch City, Burrough, Town, or Village, ſhall have power and Authority to ſearch in their own Crafts and Myſteries, and in all other Crafts and Myſteries uttering by way of Sale any of the aforeſaid Wares, as well within Cities, Burroughs, Towns, and Villages of the ſame Realm of England, and of the County of Wales, as within the Liberties and Franchiſe of the ſame Cities, Burroughs, Towns, and Villages, at all times reaſonable by the day, at Fairs, and Markets, Shops open, and Ware-houſes, all ſuch manner of Wares, Chaffers, and Mer-

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chandiſes pertaining to every of their pro-per Crafts and Myſteries, which ſhall be made by any Alien, Artificer Man or Wo-man, or any other perſon or perſons within the ſame Realm of England or Wales, or which at any time ſhall be occupied by any of the ſaid Crafts or Myſteries, in whoſe hand ſoever they may be found.

Provided alſo that the ſaid Maſters, Wardens, and others named in the ſaid Ordinance to be Searchers, ſhall not en-ter into any place exempted by Priviledge, Franchiſe, or Cuſtom, to make in the ſame any ſearch, as is aforeſaid, but by the overſight of ſome Officer of every ſuch place ſo exempt, where any ſuch Search ſhall happen to be made. [*This to be in force ſo long as ſhall pleaſe the King.*]

And if the ſaid Searchers by the ſame Search do find that ſuch Chaffers, Wares, or Merchandiſes, or any part thereof, be not pure, lawful, and able Chaffers, Wares, or Merchandiſes; and duly wrought and made as they ought to be, and that ſufficiently proved, that then it ſhall be lawful to ſuch Searchers to take and ſeize all ſuch Chaffers, Wares, and Mer-chandiſes, which ſhall ſo be found not good, pure, lawful, or able, nor well wrought, as a thing Forfeit.

The one half of the ſame Forfeitures to be paid to the uſe of our Lord the King, the other half thereof to ſuch Maſters or Wardens which ſo ſhall make ſearch and find the ſame.

From which Statutes it is to be obſerved, That Gold or Silver that is leſs in fineneſs, or courſer than the aforeſaid Standard Allay, may not be wrought, ſhaped, or faſhioned into any ſort of *Works*, and be Sold, expoſed to Sale, Exchanged or Bartered in any place within this Realm.

And for the better obſerving theſe Rules (that thoſe ſo noble and excellent Metals of that Allay may not be counterfeited, nor the people deceived in any *Works* made thereof, but (by being made up to that ſo excellent Standard) be preſerved in their due eſteem, and conſequently be a ſteady means of a creditable and competent livelihood for a great number of the people of this Kingdom, the perſons exerciſing the *working* thereof, called by the name of *Goldſmiths* inhabiting in and about the City of *London*, have been of old, and now are Incorporated by the name of **Wardens, and Company of the Myſtery of Goldſmiths of the City of** London. And all that lawfully exerciſe that Myſtery in the ſaid City, and Liberties thereof, and three miles compaſs of the ſame, being Free-men of that City, ought to be of that Company; though many there be of that Myſtery, who through miſtake or deſign are Free of other Companies, which yet hinders not but that they are to all intents and purpoſes in reſpect of puniſhment for their falſe Works, as much under the power of the ſaid Company, as their own proper Members are.

Yet experience doth clearly manifeſt, that as well the perſons of this Trade, as of all others being thus divided and intermingled into each others Company, is very injurious to the deſign

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of making Corporations, which was principally *for the correcting and preventing the making and selling any false, fraudulent, or insufficient Works or Wares of each Trade.*

And although the Wardens of the Goldsmiths have authority to search amongst all persons Making, Selling, or exposing to Sale, any Goldsmiths Works in *London*, and three miles compass of the same, and to punish them for their fraud in those Works, be the persons of what Corporation they will: What doth this avail, when the greatest part of the Members of the Goldsmiths Company be of other Trades, and by course will come to be in the Office of Wardens; and they having little or no skill in that Mystery, it is improbable they should perform that Office effectually.

And notwithstanding this Corporation hath many By-Laws, and are authorized (as other Corporations are) from time to time, as occasion shall be, to make other good and wholesome By-Laws and Ordinances, which are of excellent use for the more easie, and well governing the Members thereof, and preventing the abuses in their Works; yet this help avails little or nothing, since those that are not the immediate Members, are not bound to obey those By-Laws and Ordinances; and it would be unreasonable and injurious to exact obedience to those Laws from a few Goldsmiths that are Free of that Company, when so great a number of that Trade will be left at liberty.

This is of great concern, and worthy the consideration of those in Authority, to whom I humbly propose, whether a new Law may be made for remedy hereof, to this effect, (*viz.*)

That all and every perſon and perſons whatſoever now uſing or exerciſing, or that ſhall hereafter uſe or exerciſe the Trade or Myſtery of the Goldſmiths, within the City of London and the Liberties thereof, and three miles compaſs of the ſame City, having been bound Apprentice before the Maſter or Warden of any Corporation, Fellowſhip, or Society in the City of London: And all others of the ſaid Trade, that are or ſhall become Freemen of the ſaid City, and having ſerved Apprentiſhip thereto the ſpace of ſeven years at the leaſt, ſhall within one month after his or their uſing or exerciſing the ſaid Trade or Myſtery, be admitted, and be enjoyned to take the Freedom of the City of London, if not already taken) and to enter themſelves into the Society or Corporation of the Goldſmiths of the ſaid City, and be ſubject to all their lawful By-Laws and Ordinances: And ſhall have the ſeniority in this, as in the Corporation they now are of. And in all caſes where they have paid any fine or ſum of Money, by reaſon of any Office in the Company they now are of; ſhall be diſcharged in the like caſes in this Corporation. And every ſuch perſon to be after ſuch entrance diſcharged from all Duty to their former Company; but with this Proviſo, That where any perſon do or ſhall lawfully uſe, exerciſe, or follow the Goldſmiths Trade joyntly with any other Manual Trade or Trades, that then ſuch perſon not to be compell'd to enter himſelf into the Goldſmiths Corporation, unleſs he do exerciſe the Goldſmiths Trade more publickly, or chiefly above the other Trade or Trades: but nevertheleſs to be ſubject to all the Statutes, Laws, and Ordinances made, or to be made in reſpect of Search, Inſpection, Tryal, and regulation of the Goldſmiths Works, upon pain that every perſon to forfeit and pay five pound for every Month that he do uſe or exercile the ſaid Trade of the Goldſmiths, contrary to the true meaning hereof. See an Example in the Caſe of the *Silk-Throwers*, in Stat. 14 *Car.* 2. 15.

To which I know it will be objected, that the bringing perſons of this Trade by force from other Companies into this, will not only rend and ſpoil thoſe Companies from which they are taken, but alſo be a means of hindering ſome, in that ſpeedy progreſs towards the places of Honour they now expect in their preſent Corporations: The anſwer is,

That if ſome Members of ſome Companies are taken away, it will be prudence in thoſe Companies to purſue the obtaining the like power to

bring

bring all perſons of their Trades into the Corporation of each reſpective Trade.

And this will be the right center of the intent of making Corporations of Trades, which ought to be with the greateſt care preſerved, and preferred before thoſe other nicetics of Seniority in honourable places in the ſame, wherein perſons of a contrary Trade do ſeldom, neither indeed can they diſcharge their duty; neither is it poſſible, unleſs this courſe be taken, to make a perfect reformation, or regulation in this or any other Trade.

It may be further objected, that the thus tranſlating perſons from one Company to another, will unavoidably cauſe a breach of the Oath they took at their making Free of their firſt Company; and an Oath lawfully taken is not to be violated by any means whatſoever: The anſwer is by way of Quæry.

What if the King ſhall pleaſe for ſome defects in any Corporation (as enough may be) to diſſolve the ſame, if the Oath be to bind and make no Apprentice Free but of ſuch a Corporation that is afterwards diſſolved; muſt he therefore by ſuch Oath be barr'd from taking Apprentices, and ſo deprived of that ſo eminent way of advantage: Or if the Oath be to obſerve and keep the By-Laws and Ordinances of a Company that is afterwards diſſolved, with which all thoſe Laws and Ordinances are diſſolved alſo, muſt he be bound to perform impoſſibilities? no, 'tis plain, ſuch Oaths extend no farther than the duration of the Corporation that Adminiſtred them.

For if the King with his Parliament ſhall pleaſe to make an Act, that all Manual Tradeſmen ſhall be reduced into the proper Corporations of each reſpective Trade in manner aforeſaid, ſuch Law is a perfect diſſolution of ſo much of every Corporation as reſpects the perſons ſo taken away; and by conſequence a diſſolution of ſuch perſons Oaths to them.

And as on the one hand the Corporations would ſeemingly be prejudiced by taking their Members from them; ſo on the other hand thoſe Corporations would in effect receive more good, and be more uſeful, and more honorable than ever, by bringing thoſe that are their proper Members into the ſame; for then the deceits in the Works and Wares would be more eaſily prevented, and the people better ſerved, and all Engliſh Tradeſmen be advanced in reputation and honor, both at home and abroad.

The Wardens of the Company of Goldſmiths are by the two firſt, and the laſt recited Statutes, and their Charter, entruſted, and authoriſed to ſearch in all and every place throughout this Realm of *England*, amongſt all Goldſmiths, and all others trading in Gold and Silver Works; and to Survey, Inſpect, and try their Gold and Silver Works; and to ſeize, break, and deface, all they do find of a worſe Allay than is appointed by the afore-recited Statutes; and to fine the Offenders equal to their offences, in all the circumſtances thereof. *Which large and copious authority* is known to have been put in practice: And for the Readers further knowledge of all the Power and Authority to them given, I refer him to the Inroll-

Inrollment of the Patent now remaining of Record in the Chappel of the Rolls; a true Copy of which faithfully rendred into Engliſh is hereunto annexed.

And by the ſaid Statute of 37 Edw. 3. 7. **If the King do Aſſign and Appoint other Surveyors than the Wardens of the Goldſmiths (either for the whole Kingdom, or particular places) as occaſion ſhall be, ſuch other Surveyors are Authoriſed by that Statute to Search for, Puniſh, and Suppreſs the Defects in all Gold and Silver Works.**

And for the more eaſie diſcovering the Workers and Sellers of unlawful Gold or Silver Work, the Statutes aforeſaid do appoint, That every Maſter-Worker in Goldſmiths Work within this Realm, ſhall have his proper Mark, and the ſame Marks ſhall ſet on their Works, before it be ſet to ſale.

And that all ſuch Workers Marks (in the City of *London*, and three Miles compaſs of the ſame) to be known to thoſe aſſigned by the King to *Survey* their Work and Allay, that is, the *Wardens of the Goldſmiths*, and all other Workers Marks in the ſeveral places where Touches be ordained, to be known to thoſe appointed there to *Survey* their Work and Allay, upon the ſame penalty as is appointed for working or ſelling courſe Silver-work, (that is) to forfeit the value of the Silver work not marked with the Worker's Mark, or marked with a Mark not ſo made known, *although the Silver be of the fineneſs of Sterling.*

And by reaſon that under the general term *(of any Goldſmith's Wares of Gold or Silver)* mention'd in the Statute of 18 *Eliz.* 15. is comprehended all *Wier-work (as Cheins, and Lace,* &c.) *of Gold and Silver*, which cannot be marked with the Workers Marks (to anſwer the intent of the Law) therefore our Law-Makers have put in this Proviſo in the ſaid Satute 18 *Eliz.* 15. *viz.*) to ſet the Workers Mark to ſo much of his Work as will *conveniently* bear the ſame; but for all other Goldſmiths Work, it will bear the Workers Mark with as much *conveniency* as with reaſon can be deſired.

Note, The making all Wier-work either of Gold or Silver is the Goldſmiths Trade, by reaſon the making thereof is by Melting and Forging, and of the Wardens Authority to correct the Abuſes therein.

And for all Silver Work that is of the moſt Eminent Account (of which are all ſorts comprehended under the names of * **Veſſels and Harneſs**, that are made in and about the City of *London*, and within three miles of the ſame) theſe are not to be left unto, or received upon the Credit and Reputation of the *Maker thereof*, by having only his Mark thereto, but upon the Credit and Reputation of the *Company*, by their ſetting their Marks to the ſame, who are ſurely the moſt likely to continue, and moſt able to give ſatisfaction in caſe of defect;

* Thoſe being ſo accounted, is clearly manifeſt by the two *Cups*, (which are *Veſſels*;) and the four *Buckles*, (which are *Harneſs*;) with two *Leopards-Heads*: being the Company of Goldſmiths Arms.

defect, as is appointed by the ſaid Statutes, when the Worker and Seller may be dead, or by ſeveral ways diſabled to make recompence to the parties wronged.

The Company of Goldſmiths conſidering that their Wardens are by their Charter, and the Statutes aforeſaid appointed to Survey, Aſſay, and Mark the Silver-work, and that theſe Officers are yearly choſen according to their Uſage out of their Members of the Aſſiſtants, in courſe, as they received their Admittance into thoſe places; and that ſuch Choice ſometimes falls upon them that are either of other Trades, or not skill'd in that curious Art of making Aſſays of Gold and Silver, and conſequently unable to make a true Report of the goodneſs thereof; or elſe the neceſſary Attendance therein being too great a burden for the Wardens: therefore they have appointed an *Aſſay-Maſter*, called by them their *Deputy-Warden*, allowing him a conſiderable yearly Sallary, and who takes an Oath to this effect, (*viz.*) to perform that Office faithfully, according to the beſt of his skill, that is, to make true Aſſay of all Gold and Silver brought to their Office for that purpoſe, and elſewhere, as the Wardens and Company ſhall appoint, and give a true Report of the goodneſs or badneſs, or (as their term is) betterneſs, or worſeneſs of the ſame.

They have alſo cauſed to be made (according to the aforeſaid Statutes and their Charter) Punchians of Steel, and marks at the end of them, both great and ſmall of theſe ſeveral ſorts following, (that is) The Leopards Head Crowned, The Lyon, and a Letter, (a true Emblem

blem of which Marks are expreſſed in the Copper Cut following) which Letter is changed Alphabetically every Year; the reaſon of changing thereof is, (as I conceive) for that by the afore recited Statutes it is provided, That if any Silver Work that is worſe than Sterling be marked with the Companies Marks, the Wardens and Corporation for the time being, ſhall make recompence to the party grieved, ſo that if any ſuch default ſhould happen, they can tell by the Letter on the Work in what Year it was Aſſayed and Marked, and thereby know which of their own Officers deceived them, and from them obtain over, a recompence. Theſe Marks are every Year made New for the uſe of the New Wardens, who are choſen, and enter into that Office about Midſummer in every year: And although the Aſſaying is referred to the Aſſay-Maſter, yet the Touch-Wardens looks to the Striking the Marks.

They have alſo made in a part of their Hall, a place called by them their *Aſſay-Office*, wherein is a Sworn Weigher; his duty is to weigh all Silver Work into the Office, and enter the ſame into a Book for that purpoſe; and alſo to Weigh it out again to the Owner (only four Grains out of every Twelve Ounces that is marked, is according to their ancient Cuſtom to be detained and kept for a re-aſſaying once in every Year, before the Lords of the Council in the Star-Chamber at *Weſtminſter*, and (there alſo) before a Jury of twenty four able Goldſmiths, all the Silver Works they have paſſed for good the year foregoing.

In this Office is kept for publick view, a Table,

or

or Tables, artificially made in Columns (that is to ſay) one Column of hardened Lead, another of Parchment or Velom, and ſeveral of the ſame ſorts: In the Lead Columns are ſtruck or entred the Workers Marks, (**which are generally the two firſt Letters of their Chriſtian and Sirnames**) and right againſt them in the Parchment or Velom Columns are writ and entred the Owners Names. This is that which is meant in the before recited Statutes, by the Expreſſion of *making the Workers Mark known to the Surveyors, or Wardens of the Craft.*

Which ſaid Wardens Duty is to ſee that the Marks be *plain*, and of a *fit ſize*, and *not one like another*: And to require the thus Entring the ſaid Marks, and alſo the ſetting them clear and viſible on all Gold and Silver Work; not only on every Work, but alſo on every part thereof that is wrought apart, and afterwards Soddered or made faſt thereto in finiſhing the ſame.

The reaſon for ſetting the Workers Mark *on every part of the Work*, is to take away all colour of excuſe from the the Maker of falſe work, who might otherwiſe craftily pretend, that the part marked by him was good Silver or Gold, and (the unmarked part being bad) that the bad was added by ſome body elſe ſince the Plate went out of his hand.

Every Worker aforeſaid is not only obliged to enter his Mark on the Table aforeſaid, but (according to the Companies By-Law for that purpoſe, and the intent of theſe words in Statute 2 *Henry* 6. 14. to wit, **And that the Sign of**

every

every Goldſmith be known to the Wardens of the Craft) is at the ſame time to enter in a Book (kept for that purpoſe in the *Aſſay-Office*) the place of his Habitation; and if he remove to any other place, then to enter the ſame alſo in the Book aforeſaid; ſo that their Habitations may be always known to the Wardens of the Craft.

The reaſon is, for that if at any time any Gold or Silver Wares be found to be of worſe Allay then they ſhould be, the Worker (by his Mark ſet thereon) although he may not be known to the party grieved, yet by application to the Wardens, and by their comparing the Mark on the Work, to the Marks on their Table, may thereby be preſently diſcovered.

Every Worker dwelling in the City of *London*, and alſo thoſe in other places, whoſe Marks are not ſo made known, according to the aforeſaid *Statutes*; that is to ſay, Thoſe Workers in the ſeven Touch-Towns not making their Marks known to the Surveyor there (that is the chief Magiſtrate) in the place where each Worker inhabits: And every Worker in Goldſmiths Work in *London*, and all other places throughout *England*, not making their Marks known as aforeſaid to the Wardens of the Goldſmiths, ſuch Marks are deemed no Marks; and the making and ſelling Gold or Silver Work whereon ſuch fraudulent Marks are ſet, is as puniſhable as the working and ſelling Gold or Silver work that is worſe than Standard as aforeſaid.

Our Law-makers did appoint the thus ſetting the Marks on the Work, for the ſecureſt way to prevent fraud in this kind; for if it would not deter

deter from the working and ſelling courſe Gold and Silver works, yet would it be a ſure way to find out the Offenders, and to have the injured righted: But if the Marks might be omitted, and the work ſhould paſs into a third owners hand, for the moſt part it would be impoſſible to diſcern one man's work from anothers; by reaſon that divers Workers make all ſorts of work in ſhape ſo near alike.

If any perſon do, or ſhall counterfeit, or cauſe to be counterfeited the Companies Marks, or any of them, or the Workers Marks (that are made known to the Surveyors, or Wardens as aforeſaid) on any Gold or Silver work, by any ways or means whatſoever, be the Gold or Silver either Standard, or better, or worſe. The Counterfeiters, and the perſons cauſing the Marks to be counterfeited are puniſhable for every ſuch Offence by Indictment and Fine to the King; and ſometimes (as the Offence may be circumſtantiated) by the Pillory; after which the Company or Party whoſe Marks are counterfeited, may bring their Action againſt the Offender, and recover the damage ſuſtained.

The reaſon is, for that the counterfeiting the Marks, is (in this Trade) of the moſt evil conſequence imaginable; for it prevents the diſcovering the Makers of falſe and unlawful Gold and Silver works, and deſtroys the ſecurity, and prevents the knowledge of good and true works; and thereby puts a cheat upon the Kingdom: It alſo diſcourageth the honeſt Goldſmith, by falſe and unlawful Works paſſing under his name, and for his making; and by ſuch means may bring them

them in danger of the Pillory, and (by ſeveral other circumſtances) of being undone, and may bring the Corporation in danger of being diſſolved, or at leaſt put them to exceeding great charge; and many more evils do attend this wicked action: therefore cannot be too ſeverely puniſhed.

For the diſcovery of falſe Gold and Silver from that which is good, and to know the true value thereof, the manner is this: The Aſſay-maſter puts a ſmall quantity of the Silver upon tryal (on a Cople or Teſt) in the Fire; and when refined to the higheſt degree of fineneſs, taking it out again, he with his exact Scales that will turn with the weight of the hundredth part of a Grain, computes (by the waſte of that ſmall quantity) how much impurity or adulteration is in each ounce or pound of the Silver from which it was taken, and ſo reporteth the goodneſs or badneſs of the Gold or Silver.

Here it may be expected that I ſhould give the true proceſs (in every circumſtance) of making Aſſays by fire, as the dimenſions and manner of the Furnace, and by whom they are made, and how to make the fire in the ſame; and the ſort of Bone-aſhes, and its fineneſs, and of whom procured, and how to temper, and make the ſame aſhes into Copples, and the dimenſions and manner of the Copples, and the juſt quantity of Silver, and alſo Lead to put on the Cople, and how to place the ſame in the fire; and of the ſeveral obſervations to be made on the Metal when it is refining on the Cople, and when to take it out of the fire, and of the cleaning it from all filth by knock-

knocking it with a Hammer; and alſo of the curious Scales, and a caſe glazed to hang them in; and of what material to make a certain weight for the quantity of Silver to put on the Cople, and certain Weights of the ſeveral degrees, and the fine Pincers or Nippers to handle them to gage the Aſſay, and compute by its waſte or diminution, its betterneſs or worſeneſs in the pound weight, when 'tis ſo refined: but this being a work of ſuch difficulty to perform exactly, that 'tis impoſſible to give a clear intelligible demonſtration thereof by words only, but muſt be acquired by ingenuity in practice after ſight of the work performed, and is a ſubject fit for the ſtudy and practice, not only for all Goldſmiths, but for all Gentlemen, to the end the general knowledge herein may the better prevent ſo great and frequent deceits in Gold and Silver works. And for their encouragement, note further, that Gold Aſſays are mannaged with the materials, and in the ſame manner: and after it is refined on the cople (as afore is mentioned of the Silver) it muſt be beat thin, and roul'd up looſely, and put in warm ſtrong *Aqua-fortis*, which will purifie it from the Silver; and yet the Gold will remain in the thin Plate, although very brittle.

In the Aſſay Office are kept Anvils, Hammers, Bickerns, Stakes, Vices, and all other convenient Tools to ſtrike the Companies Marks, which ought to be done clear and viſible on ſuch Work that is Standard; and what is worſe ought to be broken and defaced, whereby thouſands of ounces of defective Silver yearly receives execution: whence it may be inferred, That if ſo many pieces of

Plate

Plate and Silver work (that are brought to receive the Companies Marks) be broken and defaced, which were not ſuſpected by the Owner, then ſurely the Silver Work never deſigned to be brought to be Aſſayed and Marked, much more deſerves to be ſo ſerved.

The ſaid Company hath now appointed only Three days in every Week, (to wit) Tueſdays, Thurſdays, and Saturdays, (formerly every working day) to Aſſay and Mark the Silver Work: And all perſons workers in Gold and Silver Works in the City of *London*, and three miles of the ſame City, are now (as by Law they ought to be) allowed to receive the Companies Marks on their Work; for although ſome perſons are or may be ſuſpected to have no right to follow the Goldſmiths Trade, yet they are to be allowed the Aſſay and Touch, until they ſhall be convicted upon the Statute of 5 *Eliz.* 4. for not having ſerved ſeven years Apprentiſhip thereto, or upon the Statutes that forbids Aliens the exerciſing any Manual Trade or Myſtery within this Realm. And in caſe of the Workers neglect to bring their Work to be Aſſayed and Marked, the Wardens are to enforce the ſame, by going often on their Search; and where they find any Gold or Silver Works finiſhed, and expoſed to Sale (amongſt any Workers or Traders therein) that are not marked according to Law, they are to ſeize and try the ſame. And although the Silver is Sterling, they are to Fine the Offender for ſuch his unlawful neglect, to the value of the ſame unmarked Work. See Statute 37 *Edw.* 3. 7. before cited.

In

In the afore recited *Statute* of the 28 *Edw.* 1. *Cap.* 20. it is Enacted, **That no manner of Veſſel of Silver depart out of the hands of the Workers, until it be Aſſayed by the Wardens of the Craft: And further, That it be Marked with the** Leopards-Head. And in the afore recited Statute of 2 *Henry* 6. 14. it is Enacted, **That no Goldſmith nor Jeweller, nor any other that worketh Harneſs of Silver, ſhall ſet any of the ſame to ſale within the City of** London, **before that it be Touched with the Touch, and alſo with the Mark or Sign of the Workman of the ſame.**

For the underſtanding of which, it is to be known, That all manner of Silver Work made to *hold* any liquid or other matter, is to be comprehended under, and called by the general name of *Veſſels*, although in the particulars, they are called by ſeveral other names: As the Coin of this Kingdom is called by the general term of Money; but in the particular parts thereof are called by ſeveral other names, as Pence, Shillings, &c.

Under the title or term of *Harneſs*, (in the ſaid Statute) is included all kind of Furniture for defence of Man and Horſes againſt the Enemy, as *Swords*, *Buckles for Belts*, *Girdles*, and ſuch like; and alſo all other manner of wearing Inſtruments for War: which term of *Harneſs*, (in the ſame ſignification as we take it, by the opinion of the beſt Expoſitors) is mentioned, 2 *Chron.* 9. 24. *Jer.* 46. 4. *Exod.* 13. 18.

And that *Hilts* for Swords are comprehended under the term of *Harneſs*, as well as *Buckles*

for Belts or Girdles, which may be collected by the Statutes 5 *Hen.* 4. 13. 3 *Edw.* 4. 4. 1 *Rich.* 3. 12. And 5 *Eliz.* 7. thoſe *Buckles* are there called *Harneſs*, they being a material part of *Girdles or Belts*, and neceſſary to compleat the ſame for Martial actions, whereunto they are properly deſigned. And a *Girdle or Belt* being of no uſe to that end without a Sword to be worn in the ſame, and the Hilt being the chief defenſive part of that Weapon, the ſame muſt conſequently be included under the term of *Harneſs*.

Which granted, it muſt be concluded, That all *Hilts of Silver, and Buckles of Silver for Girdles or Belts*, &c. (being comprehended under the term of *Harneſs*) are by the recited Statute of 2 *Hen.* 6. *Cap.* 14. to be **touched with the Touch**, (that is) Aſſayed and Marked by the *Wardens* of the Goldſmiths.

Note, Their ſo doing was anciently called the *Touch*; and the *Wardens* that are to make the Aſſays, and mark the Silver, are now called the *Touch-Wardens*.

By all which 'tis manifeſt, That all *Silver Hilts* for Swords, and *Silver Buckles for Girdles or Belts*, are not only to be of the fineneſs of Sterling, but alſo Aſſayed and Marked by the *Wardens* of the Goldſmiths before they be expoſed to ſale, upon pain of forfeiting double the value thereof.

From which I infer, (that the afore recited *Statutes* poſitively appointing all *Veſſels* and *Harneſs* of Silver to be marked with the Companies Marks) The Wardens would have done well, if (as touching *Veſſels* and *Harneſs*) they had omitted theſe Ambiguous words in their late Precept hereafter

(hereafter inſerted) (*viz.*) **if the ſaid Works will conveniently bear the ſame**; when in truth all the ſaid Works can and muſt bear the ſame. This, the Wardens have complied with, as by another precept by them ſet forth (and herein alſo inſerted) it doth appear.

Therefore I conclude, That if the *Wardens* of the Goldſmiths ſhall be remiſs in compelling (not only by precept, but alſo by all other ways, as by Law they are enjoyned) all Workers of *Veſſels*, and all Workers of *Hilts* for Swords, *Buckles*, and other *Harneſs* of Silver in the City of *London*, and three miles off the ſame, to bring the ſame Works to receive their Marks as aforeſaid, it will be great Imprudence in them to lay themſelves by ſuch neglects open to the Law, when ſo ſmall induſtry will prevent it.

And I do further aver, that if any Worker (of Hilts for Swords, Buckles for Girdles or Belts, and other Harneſs of Silver) in *London*, and three miles compaſs of the ſame City, do wilfully refuſe or neglect to bring the ſame works to receive the Companies Marks when ſuch works are not beſpoke in extreme haſte; ſuch perſon-worker is diſaffected to an honeſt reformation, and may juſtly be ſuſpected to practice thoſe deceits, which I hereby endeavour to ſuppreſs: And if ſuch his Works were frequently examined, the truth of my aſſertion would plainly appear, although his Mark be ſet on the ſame: And the tollerating the contempt of the Laws in this caſe, is not only a means to bring a light eſteem upon all, but will in ſhort time occaſion the adulterating the Goldſmiths Works as bad as ever.

It is queried by ſome, whether the ſelling, expoſing to ſale, exchanging or bartering Silver Works that is Sterling; *and the marks not ſet thereon* (as before is mentioned) be puniſhable by Law, it being no poſitive deceit: The anſwer is,

That where a Statute commands a thing to be done, if the ſame be omitted, it is a *contempt* of that Law, and *puniſhable*, eſpecially in this caſe, where it may be conſidered, that although it be not a direct deceit, yet to omit the marking of good Gold or Silver work is of ill example, and opens a door to deceit, for the permitting a worker to omit the ſetting his own Mark, or the obtaining the Companies Marks on his good work, is to encourage him at another time to work courſe Gold or Silver (*which he will aſſuredly do, the beneſit or gains is ſo bewitching*) and ſince by ſuch omiſſion, if it be of the Companies Marks, they will avoid making recompence to the party grieved; and if it be of the Workers Marks, the Maker and Seller thereof may thereby remain undiſcovered, and ſo avoid making ſatisfaction for his deceit.

And to encourage the ſeverity in curbing theſe defects, I aſſert, that if the Wardens of the Goldſmiths, upon their Search do take ſuch unmarked, and therefore ſuſpected Works to their Hall, *and upon trial it be found Standard*: and if by the ſcraping or cutting off Silver for the Aſſay, or the ſetting thereon the Companies Marks, the Work be injured or prejudiced, the Wardens are not to make good, nor anſwer for the ſame, ſince thoſe Works were not, before they were finiſhed for

ſale.

ſale, marked according to Law, but rather fine the Offenders for the neglect as aforeſaid.

Note, It is of great concern, that the Stamps be kept clean and bright, to make the Marks appear the more decent on the Work, and to prevent their being counterfeited; to which purpoſe, the ſtamps muſt be well tempered, neither too hard nor too ſoft, and well and ſmooth poliſhed when firſt made, and on a piece of ſmooth, thick, dry, tann'd Calves-Leather, nailed on a ſmooth board, and ſome putty on that Leather, every time before and after the uſing the Stamps, rub them very well; and to make them very clean in the deep corners of the Marks, rub them with a very fine braſs or iron Bruſh; and ſo rubbing the Marks, one while on the Putty-Leather, and another while with the bruſh, untill they be clean and bright; and if you put a little clean Oyl on a clean Linnen-cloath, and with it ſmear the ſtamps at the time of uſing them, it will make them wear the ſmoother, and ſharper, and hold the longer from breaking.

I give theſe directions, becauſe I find the Marks (eſpecially the Workers) are many of them ſo ill kept, and ſo dull and blindly ſet on the Works, that they can hardly be diſtinguiſhed, but ſeem like a botch or defect on the ſame.

In the Statute of 2 *Hen.* 6. 14. it is enacted, That *Sodder* ſhall be allowed for the making up all Silver Wares (to wit) **ſo much as is neceſſary for working the ſame.** For the Explaining this word (**Neceſſary**) ſee the Statute of 18 *Eliz.* 15. thereby the ſame quantity of Sodder is appointed again, and further Enacted, **That no**

Silver Work ſhall be worſe in fineneſs than that of Eleven Ounces two penny weight; This is to be underſtood of all the parts thereof, beſides the Sodder; for when all the Work is melted together, (that is) the ſoddered places with the reſt, it will be worſe than that Allay, by ſo much as the Sodder is worſe than Standard; therefore the ſame Statutes though darkly, yet by a neceſſary implication, limit the quantity of Sodder that ſhall be allowed for all Wares to a penny-worth in the Ounce, or a four penny weight in the pound, by this clauſe, **nor take above the rate of twelve pence for every pound weight** (that is, one pennyworth in every ounce) **of Plate or Wares of Silver beſides the faſhion, more than the buyer ſhall or may be allowed for the ſame at the Queens Exchange or Mint.** (That is)

If any Silver Work being melted, (with the Sodder thereof together) and it be more than the value of one pennyworth in the ounce, or four penny weight in the pound *Troy* worſe than *Sterling*, it is not to be allowed.

And therefore if ſuch have only the Makers Mark thereon, the Maker incurs the penalty of paying the value of the whole Work; and if the ſame be allowed and marked by the Company, they are to make ſatisfaction to the party grieved.

IN the Statutes afore recited, the term **Goldſmith** is frequently uſed; for the underſtanding whereof, it is to be known, that the *working, ſhaping, or faſhioning* of Gold or Silver,

ver, either by a private Workman, or by the Maſter Shop-keeper, or his delivering out Gold or Silver to his Servants, or Workmen to be *wrought, ſhaped, or faſhioned, either partly or wholly* into any ſort of Work or Ware, either by *Melting, Filing, or Hammering*, or every of them, is, or may (according to ancient uſage, and the intent of the afore recited Statutes) be deemed and taken to be the Trade of the *Goldſmiths*.

Every *Worker* of Gold or Silver Wares as aforeſaid, is by the intent of the Law a Goldſmith, which appears by the ſaid Statute 18 *Eliz.* 15. which principally aimed at the reforming the abuſe of making and ſelling deceitful Gold and Silver Works: for if the makers of that Statute did not intend and conclude *all workers* of Gold and Silver Wares as aforeſaid to be Goldſmiths, and all Workers and Retailers of deceitful Gold and Silver Works, to be thereby puniſhable; that Statute (which is the laſt made in that caſe) would be ineffectual, and the abuſe it intended to reform, would notwithſtanding remain.

Note, That the fitting or joyning any Goldſmiths Works, to the Works of other Trades; as a Cutler fitting or joyning Silver Caps or Verrels to Knife-hafts; or his fitting or joyning Silver Hilts to Sword or Rapier-Blades; or a Girdler fitting or rivetting Silver Buckles to Belts or Girdles, and in all ſuch like caſes, although they uſe the File or Hammer in ſo doing, it cannot be deemed or taken to be exerciſing the Goldſmiths trade. And although it be *working in Silver*, it cannot be truly ſaid to be the *Working, Shaping, or faſhioning Silver into any ſort of Goldſmiths Works.*

And in like manner on the contrary, the fitting or joyning the works either of the Cutlers or Girdlers Trade to the works of the Goldſmiths Trade, is not, nor can be reaſonably taken to be exerciſing either the Cutlers or Girdlers Trade.

Note alſo, That in all Manual Trades, it is the ſhaping or faſhioning the *Works* thereof, that muſt be deemed and taken to be following or exerciſing the ſame.

For the diſtinguiſhing the proper *Works* belonging to the Goldſmiths, and other Manual Trades, I will give you the meaning of the word (*Works*) and then inſtance a few Works of ſome Trades, by which the reſt may be known.

To the firſt, you are to know that the Wares of any Manual Trade in the finiſh'd form or faſhion thereof, or in a form or ſhape tending thereto, is, and may properly be deemed and taken to be the *Works* of ſuch Trade.

To the ſecond, you are to know that all manner of *Works* made of Gold or Silver (as aforeſaid) are the Goldſmiths Works, the *Wardens* of that Corporation, being (both by Statute Laws and their Charter) made Surveyors and Tryers thereof.

And all manner of *Works* made of Tin or Pewter, are the Works of the Pewterers Trade, the Maſter and Wardens (of that Corporation) being, both by Statute Laws and their Charter, made Surveyors and Tryers of the ſame.

And all manner of Works made of Iron or Steel, or both, and ſhaped into Knives, Razors, Sizers, Swords, Rapiers, and all manner of *Cutting-Inſtruments*, and the parts thereto belonging.

ing, for compleating or finiſhing the ſame, are the *Works of the Cutlers Trade*; and ſo of all other Trades, as they were exerciſed in the fifth year of Queen *Elizabeth*, and not as they are now intermingled.

Which intermingling of ſeveral Trades, hath happened by divers perſons unlawfully exerciſing ſome Trades joyntly with their own proper Trades, and their bringing up Apprentices thereto; although ſuch Maſters were therein tranſgreſſors of the Law, yet their Apprentices ſerving ſeven years thereto, may lawfully follow the ſame.

And the Artiſts of any Manual Trade may ſhape their Works into what ſhape or faſhion they pleaſe, without tranſgreſſing the Statute of 5 *Eliz.* 4.

A Goldſmith may faſhion or form his Gold or Silver into Head-pieces, Gorgets, Gantlets, *&c.* which are in ſhape like the Works of the Armorers Trade. And

A Goldſmith may form or ſhape his Gold or Silver into Flagons, Tankards, Candleſticks Porringers, *&c.* which are in ſhape like the Works of the Pewterers Trade.

He may ſhape his Gold or Silver into Fireſhovels, Tongs, Andirons, Locks, or Hinges, *&c.* which are like the Works of the Blackſmiths Trade. And

He may ſhape his Gold or Silver into Hilts, Pomels, Chapes, *&c.* which are in ſhape like the Works of the Cutlers Trade.

And a Cutler may form and ſhape his Knives, Sizers, Razors, Sword or Rapier-Blades, Hilts, Pom-

Pommels, Chapes, and the parts belonging to a Sword, into what form or faſhion he pleaſeth; but he muſt always make them of the *Metal* proper to their Trade.

And although it be the Goldſmiths Trade to ſhape their Works in likeneſs to the works of the Pewterers or Cutlers Trade; yet it muſt not be with Pewter or Tin, or Iron, or Steel, but with Gold or Silver.

And although it be the Pewterers Trade to form or ſhape their Works in likeneſs to the Works of the Goldſmiths Trade, yet it muſt be with Pewter or Tin, and not with Gold or Silver.

And although it be the Cutlers Trade to ſhape their Works or Inſtruments of *Cutting* into what ſhape or faſhion they pleaſe; yet it muſt be with iron, or ſteel, or both; and ſuch other matter for the appurtenances (as wood for the handle, and wood and leather for the ſcabbards and ſheaths, *&c.*) as were in thoſe caſes uſed in the fifth year of the Queen, and not with Gold or Silver; only they have and do of late buy Gold and Silver Wier of the Goldſmith for adorning their Sword and Rapier handles, and in-laying the Works appertaining thereto.

But when the Gentry and people fancied the wearing Hilts, *&c.* of Gold or Silver, they beſpoke and bought them of the Goldſmiths, and what Cutlers works were neceſſary to be joyned thereto, they bought of the Cutlers, and then procured them to be joyned together.

And 'tis well known that the Cutlers did not heretofore until within the laſt thirty years, keep a Silver or Gold Hilt, or any other Goldſmiths

works

works in their Shops, except the Gold and Silver Wier as aforeſaid: Neither did they intermeddle with buying or ſelling the ſame, but ſuch works were wholly confined among the Goldſmiths.

Neither have the Cutlers Corporation any Authority either by *Patent or Statute-Law, to inſpect, try, or regulate the Works of Gold or Silver*, or to puniſh the abuſes therein. Therefore the working Gold or Silver into works (be it of any ſhape or faſhion whatſoever) is not the Cutlers Trade.

And if a Cutler ſhall buy a ſilver Hilt, or other Goldſmiths Work, and joyn the ſame to a Sword or Rapier Blade, or the like; no more thereof is to be accounted the works of this proper Trade than what is within the juriſdiction of the Maſter and Wardens of the Cutlers to ſearch for, try, and regulate: And not any part thereof that is within the juriſdiction of the Wardens of the Goldſmiths, to ſurvey, try, and regulate.

And if a Goldſmith ſhall joyn a Sword or Rapier-blade or any other Cutlers work, to a Silver Hilt, or any other Goldſmiths Works, ſuch doing of the Goldſmith cannot be (in reaſon accounted) the exerciſing the Cutlers Trade; it being only joyning the works of one Trade to the works of another Trade; and is, and hath been frequently practiſed, not only by the Taylors joyning Plate-Buttons to a Garment; and a Cabinet-Maker joyning Silver hinges, and other Goldſmiths works to a Cabinet; and a Girdlers joyning Silver Buckles to Girdles or Belts, but alſo in divers others Trades; as a Smith or Carpenter joyning Hinges, Barrs, and Cramps of Iron (which are Works of the Blackſmiths Trade) to Works of the Carpenters Trade;

Trade; and an Upholſterer joyning the works of ſeveral Trades to each other, and was never accounted to be the exerciſing any of them, neither a tranſgreſſing the ſaid Statute 5 *Eliz.* 4.

And to ſuppoſe that the joyning the works of one Trade to the works of another Trade, is the following or exerciſing any of thoſe Trades, according to the ſaid Statute of *Eliz.* there is the ſame reaſon to ſuppoſe that a perſon having ſerved ſeven years Apprentiſhip to a Taylor or a Cabinet maker, or any other Trade, (to the works whereof are joyned the works of the Goldſmiths Trade) may after ſuch Apprentiſhip lawfully follow and exerciſe all or any part of the Goldſmiths Trade; and that a perſon having ſerved ſeven years Apprentiſhip to the Carpenters Trade, may lawfully follow and exerciſe the Blackſmiths Trade; and a perſon having ſerved ſeven years Apprentiſhip to the Blackſmiths Trade, may lawfully follow and exerciſe the Carpenters Trade: and a perſon having ſerved ſeven years Apprentiſhip to the Trade of an Upholſter, may lawfully exerciſe and follow either the Joyners, or Smiths, or Braſiers, or Turners, or Weavers, or Gilders Trade, they frequently joyning the works of every of theſe Trades to each other. But theſe ſuppoſitions are utterly falſe, and the unreaſonableneſs and unpracticableneſs thereof is viſible to every capacity.

From all which I infer, that neither the buying and ſelling the works of any Manual Trade, nor the joyning the works of one Manual Trade to the works of another, is intended by the Stat. 5 *Eliz.* 4. to be the exerciſing or following any of them.

Every

Every perſon having ſerved ſeven years Apprentiſhip, or as an Apprentice, (to any perſon that did before, and during the ſaid term follow the Goldſmiths Trade as aforeſaid) ſuch perſons and their Apprentices (and none other) may lawfully follow or exercife the ſame. See the Statute 5 *Eliz. Cap.* 4.

The branch thereof touching this point is *verbatim* as followeth, (*viz.*)

And be it further Enacted, by the Authority aforeſaid, That after the firſt day of May next coming, it ſhall not be lawful to any perſon or perſons (other than ſuch as now do lawfully uſe or exerciſe any Art, Myſtery, or Manual Occupation) to ſet up, occupy, uſe or exerciſe any Craft, Myſtery, or Manual Occupation, now uſed or occupied within this Realm of *England* or *Wales* **(except he ſhall have been brought up therein ſeven years at the leaſt as an Apprentice in manner and form aboveſaid; nor to ſet any perſon on work in ſuch Myſtery, Art, or Occupation, (being not a Workman at this day) except he ſhall have been Apprentice as is aforeſaid, or elſe having ſerved as an Apprentice as is aforeſaid, ſhall or will become a Journeyman, or hired by the year, upon pain that every perſon willingly offending, or doing the contrary, ſhall forfeit and loſe for every default forty ſhillings for every month.**

The meaning of the ſaid Branch more fully to this purpoſe is thus, (*viz.*)

To make a man lawfully capable to follow

low the Goldſmiths Trade, he muſt have ſerved ſeven years Apprentiſhip, or as an Apprentice ſeven years to a perſon that did before ſuch Apprentiſhip (and alſo during that term) follow the Goldſmiths Trade as aforeſaid, openly, commonly, and by publick Profeſſion make and ſell Goldſmiths Works and not privately by ſtealth.

An Information was brought in the *Kings-Bench* at *Weſtminſter* in *Hillary* Term, the 27 of King *Charles* II. againſt *H. H.* for exerciſing the Goldſmiths Trade, (not having ſerved ſeven years Apprentiſhip thereto) contrary to the ſaid Statute of *Eliz.* one witneſs on the Defendants part teſtified his ſervice ſeven years; but the Lord Chief Juſtice *Hale* gave direction to the Jury, that unleſs it be proved that the Defendants Maſter did make and ſell Goldſmiths works ſome conſiderable time before the Defendant became his Apprentice, they muſt find for the Plaintiff; it being ſtrongly ſuggeſted, that inſtead of the Maſter teaching the Defendant, he the Apprentice did teach the Maſter to make Silver Hilts, and other Goldſmiths works; and that the Defendants Apprentiſhip was only for colour to his following the Goldſmiths Trade; but upon other teſtimonies for the Defendant, the Plaintiff ſuffered a Non-ſuit.

The intent of the Statute for confining perſons to ſeven years Apprentiſhip to follow thoſe Manual Trades, is this, (to wit) that they may in all probability be skilful, and the better Workmen and by conſequence make all their works the more decent and ſerviceable: And although ſome are very botchers that have been brought up ſeven

ſuch Apprentiſhips; and ſome good Work-men that never were ſo inſtructed, which are rarities, and do happen but ſeldom, yet very common it is, and well known that perſons become curious Artiſts in thoſe Trades wherein they are ſo brought up, that otherwiſe would not be ſo.

Wherefore if this Branch of the Statute ſhould be repealed, or made of no uſe by not being favoured in the Courts where Caſes thereon ſhall happen to be tryed, it will not only be conſiderable loſs, and diſcredit to the people of this Kingdom by bad workmanſhip, but alſo much diſcourage the putting Children or Youth to ſerve ſeven years to ſuch Trades for a way of livelihood, when every botcher may without ſuch ſervice follow them at pleaſure.

And thoſe that would otherwiſe be curious Artiſts, will be diſcouraged ſo to be, by foreſeeing a neceſſity to ſell their works at the prices, for which the botchers ſell theirs, or have none or very little Trade.

And although this holds not true in the general, ſome wearing or uſing buyers being ſo skilful to chuſe good workmanſhip, and refuſe the bad, or give a ſutable price for either; yet certain it is, that ill workmanſhip is not ſufficient puniſhment in it ſelf to the maker, by not having vent, for the greateſt part of the wearing or uſing-Buyers having very little or no skill, do take all ſorts of works upon that little skill they have, or upon the commendation of the ſeller, (who certainly will not diſparage, nor ſpeak any thing that may leſſen the eſteem of the ſame) and thus are deceived, when a due obſerving the Laws would prevent it.

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Wherefore if this Branch of the Statute ſhould be repealed, or made of no uſe by not being favoured in the Courts where Caſes thereon ſhall happen to be tryed, it will not only be conſiderable loſs, and diſcredit to the people of this Kingdom by bad workmanſhip, but alſo much diſcourage the putting Children or Youth to ſerve ſeven years to ſuch Trades for a way of livelihood, when every botcher may without ſuch ſervice follow them at pleaſure.

And thoſe that would otherwiſe be curious Artiſts, will be diſcouraged ſo to be, by foreſeeing a neceſſity to ſell their works at the prices, for which the botchers ſell theirs, or have none or very little Trade.

And although this holds not true in the general, ſome wearing or uſing buyers being ſo skilful to chuſe good workmanſhip, and refuſe the bad, or give a ſutable price for either; yet certain it is, that ill workmanſhip is not ſufficient puniſhment in it ſelf to the maker, by not having vent, for the greateſt part of the wearing or uſing-Buyers having very little or no skill, do take all ſorts of works upon that little skill they have, or upon the commendation of the ſeller, (who certainly will not diſparage, nor ſpeak any thing that may leſſen the eſteem of the ſame) and thus are deceived, when a due obſerving the Laws would prevent it.

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Note, That thoſe who have been Apprentices in *London* for ſeven years to any Trade (whether Manual or other) and made Free of that City, may uſe any other Trade in the ſame City, that is, leave off the Trade which they ſerved unto, and follow any other Buying or Selling Trade; *but not a Manual Trade intended by the Statute* 5 *Eliz.* 4. Neither may they exerciſe or follow two Trades at one time, unleſs having ſerved ſeven years Apprentiſhip to them joyntly together: And if they leave off ſuch complext-Trades, they may not take up or follow but one other Buying and ſelling-Trade at one time. This is by the ancient cuſtom (of the City) in being long before that Statute was made.

And for preventing the miſtake upon the Caſe of *John Tolley*, *Hill.* 12 *Jac. in Banco rep.* and *Bulſtrod*, 1. 190, 191. it may be obſerved, that the ſaid *Tolley* having ſerved ſeven years to a Woolpacker in *London*, and being made Free of that City, leaveth that Trade, and betaketh himſelf to the Trade of an Upholſterer, which is only a Buying and Selling Trade, and not a Manual Trade, comprehended in the ſaid Statute.

Every one, before that Statute, might by the Common Law follow what Trade he pleaſed (or was capable of) except in *London*, and the Liberties of the ſame: the cuſtom whereof, in the caſe of Manual Trades (as aforeſaid) being long before that Statute was made, ſo well approved, that it became the pattern for the reſt of the Kingdom, and all were by a Law, confined to obſerve and keep that ſo long experienced wholeſome Cuſtom of the City of *London*.

So

So that neither by that caſe, nor any other, can it be proved that any perſon may follow or exerciſe in *London*, or elſewhere, any Manual Trade, comprehended in the ſaid Statute, that hath not been brought up ſeven years as an Apprentice thereto as aforeſaid.

Note, That though an Infant may voluntarily bind himſelf an Apprentice, and if he continue an Apprentice for ſeven years, he may at that ſeven years end have the benefit and uſe of his Trade; and no Covenant of an Apprentice-Infant will bind him for longer term of Apprentiſhip than ſeven years.

This is to be underſtood of all Apprentices bound before the Juſtices of the Counties, in ſuch places where all perſons by the Common Law (before the Statute of *Eliz.*) might exerciſe and follow what Manual Trade they pleaſed without ſerving Apprentiſhip thereto.

But that holds not where the cuſtom of any Corporation is otherwiſe, as in *London* it was (before that Statute, and now is) that no perſon ſhould exerciſe any Manual Trade therein, unleſs he ſhall have ſerved ſeven years Apprentiſhip thereto at the leaſt And that an Infant of a competent age, as either of 11, 12, 13, 14. years or more, having bound himſelf an Apprentice by Covenant of Indenture for eight or nine years, or more, and it be inrolled before the Officer (as the Chamberlain in *London*) appointed for that purpoſe, that ſuch his Infant-Covenant ſhould be good, and oblige him to ſerve out that time, before he ſhould have the benefit and uſe of his Trade, or be freed from his Maſter.

This Cuſtom of *London* is the Common Law of *London*, and will ſtand good againſt the Common Law of the Kingdom, there being no Statute that controuls, but many that confirms it: And an action thereon will hold in any Court againſt any Apprentice ſo bound, and inrolled, that ſhall go from his Maſter after ſeven years end (without his conſent) before the expiration of the reſidue of the term in his Indentures, and ſuitable damage will be recovered.

Note alſo that the Covenants of Apprentiſhip of any perſon under twenty one years of age will not bind him, (but is utterly void in Law) unleſs it be inrolled, before the Chamberlain of *London*, or the Juſtices in the Counties, or the Officers in Corporations, according to Law and Cuſtom.

Note further that Aliens (that is, thoſe born out of the Kings Dominions, and of Parents out of the Kings obedience) not made Denizens, are diſabled by our Laws to follow (as Maſters) the Goldſmiths Trade, although they have been brought up ſeven years, as Apprentices thereto. See the Decree made in the *Star-Chamber* the Twentieth day of *February*, in the 20. Year of *Henry* VIII. and confirmed by Stat. 21 *Hen.* 8. 16. the branch thereof to this purpoſe is *verbatim* thus, (*viz.*)

And alſo it is further Decreed, That no Stranger, Artificer, or Handicraftſ-man, born out of our Obeyſance (not being a Denizen) which at the day of the making of this Decree is not a Houſholder within this our Realm, or keepeth any Shop or Shops within the ſaid City and Suburbs,

or

or any other City, Town, or Burrough within this our Realm, shall from that day forward set up or keep any House, Shop, or Chamber within our City of London, Suburbs, or Parishes before rehearsed; or within any other City, Town, Burrough, or Village within this our Realm, wherein he shall exercise and practice any Handicraft or Mystery, upon pain to incur, and run into such Penalties as be contained in the Statutes before this time made and Enacted.

The Penalties referred to, by the said Decree and Statute, is mentioned in a branch of the Statute 1 *Rich.* 3. 9. which is *verbatim* thus, *viz.*

Moreover, That no person not born under the Kings Obeysance, as before is said, shall exercise or occupy any Handicraft, or the Occupation of any Handicraftsman in this Realm of England; but that all such persons, which after the said Feast of Easter shall come into this Realm, every of them shall depart into their own Country again, or else be Servants to such of the Kings Subjects only, as be expert and cunning in such Feits, Arts, and Crafts, which the said Stranger can occupy, upon pain of forfeiture of all their goods, which shall come and dwell in this Realm contrary to this Act, in whose hands soever they shall be found.

Note, That all Aliens and Denizens, are by the Statute 5 *Eliz.* 4. forbidden the use of any Handicraft Trades, named or intended by that

Statute, that have not been Apprentices thereto ſeven years, or ſerved as Apprentices ſeven years *within this Realm*, upon the ſaid penalty. See for this *Hutton*, 132. *Jenk.* Cent. 7. Caſe 15.

The one half of which Forfeitures in the caſe of Aliens keeping houſe, &c. appointed by the ſaid Statute, is to be to the King; the other half to him or them that will ſeize the ſame, or purſue for the ſame by Action of Debt, by Bill at the Common Law, by Bill or plaint after the Cuſtom of the City or Town where ſuch Fines, Forfeitures, or Penalties hereafter ſhall fall and be: And that the Defendant in any ſuch Action ſhall not be admitted to wage or do his Law, nor no Protection nor Eſſoyn of the Kings Service ſhall be allowed for any ſuch Defendant in the ſame, 1 Rich. 3. 9.

And in the caſe of Apprentices, upon the Statute of 5 *Eliz.* 4. The one half of all Forfeitures and Penalties expreſt and mentioned therein, (other than ſuch as are expreſly otherwiſe appointed) ſhall be to the Queens Majeſty, her Heirs and Succeſſors; the other Moiety to him or them that will ſue for the ſame in any of the Queens Majeſties Courts of Record, or before any of the Juſtices of Oyer and Terminer, or before any other Juſtices or Preſident and Councel before remembred, by Action of Debt, Information, Bill of Complaint, or otherwiſe; in which Actions or Suits no Protection, wager of Law or Eſſoin ſhall be allowed.

And

And that the ſaid Juſtices, or two of them, whereof one to be of the Quorum, and the ſaid Preſidents and Councels as is aforeſaid; And the ſaid Mayors or other head Officers of Cities or Towns Corporate, ſhall have full Power and Authority to hear and determine all and every Offence and Offences, that ſhall be committed or done againſt this Eſtatute, or againſt any branch thereof, as well upon Indictment to be taken before them in Seſſions of the Peace, as upon Information, Action of Debt, or Bill of Complaint to be Sued or Exhibited by any perſon: and ſhall and may by virtue hereof make proceſs againſt the Defendant, and award Execution, as in any other caſe they lawfully may by any the Laws and Statutes of this Realm: And ſhall yearly in Michaelmas-Term, certifie by Eſtreat, the Fines and Forfeitures of every the Offences contained in this Eſtatute, that ſhall be found before them, into the Court of Exchequer in like ſort and form as they be bound to certifie the Eſtreats for other Offences and Forfeitures to be loſt before them, any thing in this Statute contained to the contrary notwithſtanding.

Now as I have ſhewn ſome reaſons for the making that branch in the Statute for confining perſons to ſeven years Apprentiſhip to follow the Manual Trades, ſo I think it neceſſary to give you the reaſons for making the Laws againſt Aliens, following (as Maſters) any Manual Trade

within this Realm; which reasons are amply set down, both in the Preamble of the afore-mentioned Decree, and in the said Statute of 1 *Rich.* 3. 9. Those in the Statute are *verbatim* thus, *viz.*

Moreover a great number of Artificers and other Strangers not born under the Kings Obeysance, do daily resort and repair to the City of London, and to other Cities, Burroughs, and Towns of the said Realm, much more than they were wont to do in times past, and inhabit by themselves in the said Realm with their Wives, Children, and Houshold, and will not take upon them any laborious Occupation; as going to Plow, or Cart, and other like business, but use the making of Cloth, and other Handicrafts, and easie Occupations; and bring and convey from the parts beyond the Sea great substance of Wares and Merchandizes to Fairs and Markets, and all other places of this Realm at their pleasure; and there sell the same, as well by Retail as otherwise; as freely as any of the Kings Subjects use to do, to the great hammage and impoverishment of the Kings said Subjects.

And will in no wise suffer nor take any of the Kings said Subjects to work with them, but they take only into their Service, people born in their own Country; whereby the Kings said Subjects for lack of Occupation fall into idleness, and be Thieves, Beggars, Vagabonds, and people of vicious living, to the great perturbance

turbance both of the King and all his Realm.

And when the Merchants, Artificers, and Strangers before rehearsed have gained within this Realm, by Buying and Selling, or by such easie Occupations and Handicrafts, great substance of Goods, with the same substance they go out of this said Realm, to such parts beyond the Sea, as them liketh best, and there spend the same goods oftentimes amongst the Kings Adversaries and Enemies, to the great damage of our Sovereign Lord the King and his Subjects, and impoverishing of this Realm, and the Commons of the same.

And so by the occasion of the premisses, the substance of the Inhabitants in the said Cities, Burroughs, and Towns now of late hath fallen, and daily doth fall into great poverty and decay, to their great undoing; unless the Kings gracious aid be to them in this behalf shewed.

The reasons in the afore recited Decree made in the 20 *Hen.* 8. are *verbatim* thus, (*viz.*)

Where of late our true and faithful Subjects, Artificers, and Handicraftsmen, born under our Obeysance, inhabiting within our City of London, and the Suburbs of the same, exhibited unto us a lamentable Bill of Complaint; containing, that notwithstanding many good and necessary Statutes, and Acts of Parliament have been published, ordained, and made; and especially one in the first year of King Ri-

chard the Third; and the other being made in the first year of the Reign of our dearest Father of noble Memory, Henry VII. late King of this Realm; and in the 14. and 15. year of our Reign, concerning Strangers, Artificers, and Handicraftsmen, born out of our obeysance, using and exercising Handicrafts within this our Realm of England, as well for the restraining of the excessive number, and unreasonable behaviour of the same Strangers Artificers, born out of our Obeysance; which by continual resort and repair into this our said Realm, daily increased, to the great detriment of our own Natural Subjects Artificers of the same Handicrafts and Mysteries, and of other sundry inconveniencies; by occasion that divers of the said Subjects for lack of Occupation fall into idleness.

As also for the Reformation of sundry deceits and falshoods, practised by the said Strangers Artificers in the said Handicrafts, to the great dammage and loss of us, and of all our said natural Subjects.

The said Strangers Artificers, nothing pondering or dreading the said Statutes, ne the penalties in the same contained and expressed, cease not contemptuously as well to abuse the said Statutes, and most part entirely to infringe and break the same.

And to accumulate from time to time more Offences and Enormities as well against our Prerogative, as to the detri-

ment

ment of the Commonwealth of this our Realm, and our loving Subjects of the same; for when any search shall be made in every Handicraft within any City, Town, or Burrough Corporate, within our said Realm, by our Subjects, the said Wardens and others ordained by the said last Act of Handicrafts-men, within any City, Town, or Burrough-Corporate, and an Housholder-Stranger, born out of our Obeysance, inhabiting within our said City, Town, or Burrough-Corporate, using any Handicraft, be he Denizen, or not Denizen; the said Stranger being a Housholder, as before is said, being lawfully warned and required thereunto, according to the said Act, either will refuse to do his duty therein, or else he will give secret warning thereof to his Brethren of the said Crafts.

Whereby they have not only conveyed and hid all their unlawful, untrue, subtil and deceitful Wares, which they untruly, subtilly, and unsubstantially, and deceitfully have made, and daily make and utter to our Subjects at excessive and unreasonable prices, to the great detriment and dammages of our said Subjects, but also their Servants and Apprentices they have hid from the knowledge of the said Wardens, when any such search hath happened to be made.

And so they defraud the same good and honorable Statute and Act; so that thereof no lawful punishment could, can, might,

or

or may ensue according to the tenor, purport, and effect of the said Statute, but they contemn, despise, and set at naught the same; whereby, and by the other unlawful means aforesaid, they daily increase in great riches, and in great multitude in numbers of Strangers, Handicrafts-men born out of our Obeysance.

And when they have gathered much riches and Money, they against our Laws convey the same Money over the Sea.

And then they also go over the Sea into their own Countries, and there purchase them Lands and Tenements with part thereof; and with the residue of the same they live thereby; and sometimes they convert part thereof to the use of our Enemies in those parts.

And so as well our poor Subjects, Cordwainers, and all our Subjects Handicrafts-men, born within our Obeysance, by the means aforesaid be sore impoverished, minished, and almost utterly decayed and destroyed; and many of them for lack of Occupation in the said Handicrafts, be constrained to live in idleness; by occasion whereof they do continually fall to Theft, Murder, and other great Offences; and consequently in great numbers be put to death by our Laws, as we be informed.

Which *reasons*, if well considered, and compared with the present grievances of our Manual Trades-men, their condition will appear to be as bad as then, or rather worse.

The

The nature of their preſent caſe is thus, The poorer ſort of Aliens of all ſorts of manual Trades, not able to live in their own Countrey, and others of them of extravagant diſpoſitions, have and do daily come into this Realm; and inſtead of becoming Houſhold-ſervants to our Natives-Artificers, (which is allowed by our Laws, and the Laws of Nations to each of them for one month at one place, for their ſuſtenance as Travellers) do ſettle at firſt in private corners, and in Garrets, and ſuch like places, and chiefly in the out parts of this City, and then for their preſent ſuſtenance, by one means or other, with extraordinary neceſſitated-diligence, they make Works, and then about with it they go, ſometimes to the Gentry, and ſometimes to the Native-Tradeſmen-Shop-keepers, and the ſame works do ſell for leſs profit than they could afford them, did they live like men.

The reaſon thereof is, for that they know they tranſgreſs our Laws, and cannot withſtand the ſeverity of them, unleſs by ſuch their cheap ſelling they get favour amongſt *ſome ill-minded Natives that value not the ruine of the publick, ſo they can advance their preſent private benefit.*

And when got into a way of Trade, they make their Works ſlight, unlawful, and fraudulent, and ſo by any deceitful means in their Trades, they get conſiderable Riches, with which they either return into their own Countrey, or elſe procure themſelves to be Naturalized or made Denizens; and then their names being up, they ſell all their Works (which do not in the leaſt in Workmanſhip, exceed the Works of our Natives) at prices much above them.

And

And it is notoriouſly known, that our Natives expoſing their own Works to ſale amongſt the Gentry, have been ſlighted, and their Works ſo undervalued, that the ſame Works they have put into the hands of Aliens of the ſame Trades; who being employed on purpoſe, have expoſed thoſe Works to the ſame Gentry, and have obtained, not only the deſired prices of the Owners, but a conſiderable ſurpluſſage to the benefit of themſelves.

Now obſerve the ill conſequence of ſuffering theſe poor Caterpiller-Aliens thus to incroach and undermine us.

Our poor natural Engliſh Manual Tradeſmen (which are *innumerable*) in all probability might live well and comfortable on their Trades, they being in the general no whit inferior therein, to any people in the world: Theſe I ſay, ſeeing their Trades thus undermined, are forced (of meer neceſſity) to the ſame deceitful courſes as the Aliens take, or ſtarve, that is, *make their Works ſlight and adulterate*, and ſell cheap, and ſo low, that (notwithſtanding the benefit by ſuch fraud) their gains will not ſupport them.

And here is the advantage the Aliens have, they are accuſtomed from the beginning to a courſe, and mean Diet, and mean and dirty Apparel, which our Natives never were uſed to; nor can they ſubſiſt with it: And our Natives Artificers are generally Contributers to all Taxes *ſcot and lot*, which theſe Aliens are freed from by living here in *holes and corners*. And thus when the gains are equal, and the expence of the natural Engliſh ſo much above the Aliens, 'tis no marvel that theſe Aliens flouriſh and grow rich, and the natural

tural Engliſh Artificers become Beggars and Thieves.

As to the great fraud and abuſe to the people in Gold and Silver Works, whence doth it ariſes it is plain it comes from this root, The Aliens-Artificers undermine us, *by ill practices*, and the natural Engliſh Artificers muſt do ſo too; that is, get by fraud what they loſe by decay in their Trades: Now take away the cauſe and the effect will follow; ſuppreſs and prevent theſe Caterpiller Aliens, and the natural Engliſh Goldſmiths will all be eaſily brought to make lawful, ſubſtantial, and curious Goldſmiths Works: and it cannot be ſuppoſed they will be unreaſonable in their gains, ſince it is apparently true, that there is not occaſion or uſe amongſt us, for the quantities of Works in faſhion that the natural Engliſh Artificers can with their ordinary diligence make up fit for ſale and uſe.

Now it is unreaſonable for any to ſuppoſe that to give free liberty (by a Law) for the mean and poor Aliens to come into this Realm, and to follow and exerciſe the Manual Trades (with as much freedom and liberty as the Natives) will, according to that general ſaying, (to wit) make us the more flouriſhing and rich, becauſe the more popular; when it is apparent it will (on the contrary) endanger thoſe poor Aliens, their Wives and Childrens falling to the charge of the Pariſhes, and make us the more poor and beggerly; eſpecially the Manual Tradeſmen, who are not the leaſt part of the people of this Kingdom.

But if Authority could order it ſo, that the Merchants and wealthy Aliens (not being Artificers

or

or Handicraftſ-men) could be perſwaded to come and ſettle amongſt us, I am confidently perſwaded, that inſtead of cauſing diſcontent in our Natives, it would be their exceeding joy, to ſee by this means this Kingdom in ſo probable a way of growing great, both in Riches and Honor; or if there were ſome new Manufacture ſet on foot amongſt us, and we not having Natives to ſupply or mannage it, then in ſuch caſes if the poor Aliens-Artificers were invited over, and employed only therein, it may not a little contribute to our advantage.

To conclude this digreſſion, in the afore-mentioned caſe of Aliens-Artificers, and in the caſes of ſerving ſeven years Apprentiſhips, to follow the Manual Trades, two parties are in conteſt, (*viz.*) the perſons enjoying priviledges by our Laws; and the perſons fraudulently, and unlawfully, incroaching into, leſſening, and taking away thoſe priviledges; now what difference is there betwixt this fraud, and the taking away unlawfully a mans Lands, Tenements, Goods or Chattels, which are all enjoyed by our Laws? 'Tis only this, The latter is a property in *ſpecie*, and ſuppoſed certainty; the other is a property accidental.

The Natural born, and Naturalized Artificers of this Realm, have not only a common property by Birth or Naturalization, to have, receive, and enjoy all the advantages and benefit that do or ſhall ariſe, from the working or making the Manual Works made in this Realm (they having been brought up in this Realm ſeven years as Apprentices thereto) but alſo every man ſo brought up, hath paid a conſiderable price for ſuch his priviledge

viledge (to wit) a conſiderable ſum of money to be bound Apprentice, and ſeven years ſervice beſides, *which amounts to a greater value*; and then comes in the Aliens-Artificers, and they, *with others who never ſerved ſeven years*, enter upon theſe priviledges, and immunities, having no right thereto, they never having been at ſuch coſt and charges, or labour amongſt us, for gaining the Trades they thus intrude into and follow: therefore no reaſon they ſhould be ſuffered to enjoy any of them, but be eſteemed as injurious as Thieves and Robbers; and the rigor of our Laws inflicted on them: And little reaſon there is that the Robbers on the High-way (their ſo doing being no offence but by the Law) ſhould be ſo ſeverely proſecuted, and theſe ſort of perſons (whoſe offence is all one in effect) be tolerated and connived at, when the intent of our Laws is to preſerve every ones property, and was made for the puniſhing all invaders thereof. But to return to my intended deſign.

IF any perſon hath bought or received (of any Worker or ſeller of Silver-work) any kind of Silver-Wares ſuſpected to be deceitful, the ſame deceit may be known without doing prejudice to the work, by rubbing the Plate in ſome place leaſt in ſight, with a File of indifferent fineneſs; and if it be worſe than *Sterling*, *it will appear Yellowiſh*, or elſe file it a little, and rub the place filed on a clean Touch-ſtone, and cloſe by it rub the edge of a good Half-crown-piece, or ſuch like thick money, and the difference, if any, will appear.

The reaſon that I direct the filing the Work, is this, (to wit) that the Artificial boiling of courſe Silver-work, will ſo eat or diſſolve the Allay that is on the ſurface or outſide thereof, that unleſs it be filed as aboveſaid, it will Touch on the Touch-ſtone ſix-pence or eight-pence in the ounce better then it is.

Note, It is cauſe to ſuſpect that the Silver is very courſe, when the work do riſe in Bliſters, or Peel, or Scale off in thin Scurf or Flakes; which Scaling, Scurf or Bliſtering, is cauſed by the eating the Allay as aforeſaid, and the Silver thus ſeperated from the Allay, will remain of an infirm ſpungy body, and therefore will be apt to Peel as aforeſaid.

Note further, That to know a good Touch-ſtone, you muſt obſerve, That the beſt ſort are very black, and of a fine grain, poliſhed very ſmooth, and without any ſpungy or grain-holes; And near the hardneſs of a Flint, but yet with ſuch a ſharp cutting greet, that it will cut or wear the Silver or Gold when rubbed thereon.

Touch-ſtones are uſually ſold at the *Iron-mongers* in *Foſter-lane, London.*

The way to make a true Touch on the Touch-ſtone, is thus; When your Touch-ſtone is very clean, which if foul or ſoily, it may be taken off, by wetting it, and then rubbing it dry with a clean Woollen Cloth; or if fill'd with Touches of Gold or Silver. *&c.* it may be taken off by rubbing the Touch-ſtone (if very hard) with a fine Pomice-ſtone, if not very

Theſe Pomice-ſtones and Blew Hones, or Smoothing ſtones, are Sold at the *Iron-mongers* in *Foſter-lane, London*

very hard, with a fine Blew-Hone firſt, and then with a well burnt Charcole in water, and it will make it very clean; and obſerve, the ſmoother you make the Touch-ſtone, the clearer will be the Touch: Therefore whether you uſe a Pomice-ſtone, Hone, or Charcole, prepare them very even, and rub them on the Touch-ſtone very lightly, and croſs the grain of the Touch-ſtone, if any grain there be: Then (your Silver being filed as above-ſaid) rub it ſteadily and very hard on the ſtone, not ſpreading your Touch above a quarter of an inch long, and no broader then the thickneſs of a Five-ſhilling-piece of Silver; And ſo continue rubbing it until the place of the ſtone whereon you rub, be like the Metal it ſelf: And when every ſort is rubbed on, that you intend at that time, wet all the touch't places with your Tongue, and it will ſhew it ſelf in its own countenance.

If it appear by theſe ways to be worſe than Standard, you may carry or ſend it to the Goldſmiths *Aſſay-Office* aforeſaid, and upon your deſire, the Officers there will make an aſſay of the ſame, and give you a true report of the value thereof in writing, and return the Ware (and Silver taken off for the Aſſay) to you again, and no more defaced than what is done by the ſcraping of the Silver for the aſſay.

But if you are minded to keep the matter more concealed, you may artificially cut or ſcrape between 18 and 24 grains from ſome one part, or from all the parts of the work (except the ſoddered places) (for leſs in weight than between 18 and 24 grains is not ſufficient for an aſſay)

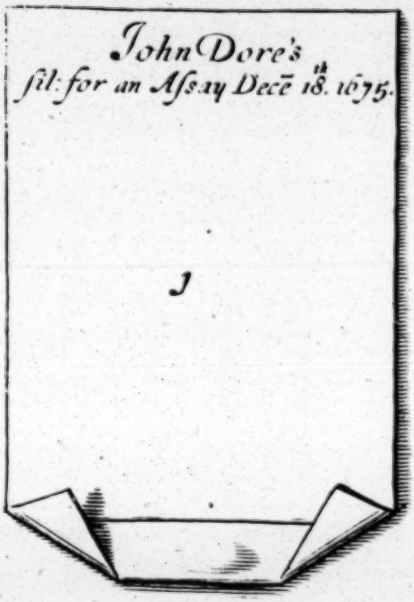
Then in a piece of paper of about 6 inches long, and 4 inches broad, At the one end write down the Owners name, and the day of the Month and Year; (the reaſon for dating the Aſſay paper, is to prevent delay in the Aſſay-Maſter, and the miſtake of the time it was or ought to be Aſſayed in, if it ſhould happen to be queſtioned) and at the other end put the cuttings or ſcrapings of Silver in a fold, turning in the corners once, to prevent the ſhedding the Silver, and ſo fold up all the paper to the name ſo written on the top as aforeſaid. The manner and form for folding up the ſaid Paper, and of the Aſſay-Maſter's Entry of his report in ſuch Paper is here preſented by a Coper Cut.

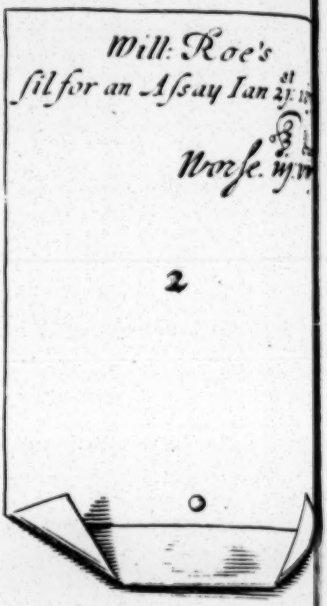
Here place the Copper Cut.

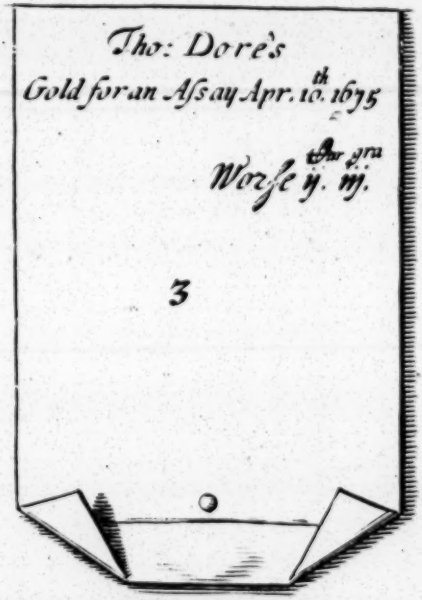
see page 220

Then carry or ſend it to the Gold-ſmiths Aſſay-Office as aforeſaid (which is now on the South part of their Hall in *Foſter-lane, London*) on any of the Aſſay-days aforeſaid, before the hour of 9 in the morning, and leave it with the Aſſay-Maſter or his Servant, and at 6 of the Clock or before in the Afternoon the ſame day it will be done; which I conceive will be, with the more courteous, careful, and ready performance (eſpecially to ſtrangers) to prevent ſuſpition of their being diſaffected to the reformation, or favourers of ſuch: And by calling there for the Aſſay, by the name in the Paper, it will be delivered, upon the payment of 2 ^{d}, which is the accuſtomed Fee for the making of an Aſſay of Silver. But all Workers in Goldſmiths works in *London*, and three Miles compaſs of the ſame (whoſe Markes are entred

on







1 An Assay paper open with the Assay Master's report

2 An Assay paper open of silver wch the Assay Masters repor wch is 11.8.ob: in the ounce wch then standard silver.

3 An Assay paper open of Gold wch the Assay Masters repo wch is 10.1.d in the ounce wch then standard Gold.

4 An Assay paper folded

5 The Company of Golds smiths Marks L being ỹ letter for year 1070.

Place this Fo: 66

on the Table of Marks in the Office) are not to pay any thing for their Silver Aſſays brought on the Aſſay-day-eve, or on the Aſſay-day before 9 of the Clock in the Morning; and if after (in the ſame day) to pay 2 d. for every Aſſay; ſee the Table of Orders in the Aſſay-Office: This is done *Gratis* to the Workers, that they may always readily make and know their Silver to be Sterling before they work it.

In which Paper the Aſſay Maſter will enter his report thereof in writing in manner following.

If it be Sterling or Standard, he will write ——— } *Sta.*

If it be a half-penny weight worſe, he will write — } *Worſe ob.*

If it be a penny weight worſe, he will write ——— } *dwt. Worſe* i

If it be a penny weight and half worſe, he will write, ——— } *dwt. worſe* i *ob.*

If it be Two penny weight worſe, he will write, — } *dwt. worſe* ii

If it be Two penny weight and half worſe, he will write, ——— } *dwt. worſe* ii *ob.*

If it be three penny weight worſe, he will write, — } *dwt. worſe* iii

If it be three penny weight and half worſe, he will write —— — } worſe iij dwt. ob.

If it be four penny weight worſe, he will write — } worſe iiij dwt.

If it be four penny weight and half worſe, he will write —— } worſe iiij dwt. ob.

If it be five penny weight worſe, he will write — } worſe v dwt.

If it be five penny weight and half worſe, he will write —— } worſe v dwt. ob.

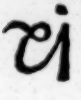
If it be ſix penny weight worſe, he will write — } worſe vj dwt.

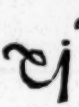
If it be nine penny Weight worſe, he will write —— } worſe ix dwt.

And ſo proceeding higher.

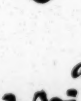
If it be Ten penny weight worſe, he will write, — } Worſe x dwt.

If it be Ten penny weight and a half worſe, he will write, — } worſe x dwt. ob.

If it be Eleven penny weight worſe, he will write——— *worſe*  *dwt.*

If it be Eleven penny weight and a half worſe he will write— *worſe*  *dwt.* *ob.*

If it be fifteen penny weight worſe, he will write——— *worſe* *dwt.*

If it be ſixteen penny weight and half worſe, he will write——— *worſe*  *dwt.* *ob.*

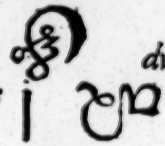
And ſo proceeding higher.

If it be an ounce worſe, he will write——— *worſe*

If it be an ounce and a half penny weight worſe, he will write— *worſe* *dwt.* *ob.*

If it be one Ounce and five penny weight worſe, he will write— *worſe* *dwt.*

If it be an ounce, and nine penny weight worſe, he will write *worſe* *dwt.*

If it be one ounce and fifteen penny weight worse, he will write- } *worse*  *dwt.*

If it be an ounce and nineteen penny weight worse, he will write — } *worse* *dwt.*

Note, *That* [*dwt*] *signifies* penny-weight *and* *signifies* Ounce.

And so proceeding higher according as he finds the Silver courser, and with Numeral Letters setting down what 'tis worse than *Sterling* or *Standard.*

And it must be observed, whatever weight he sets down, it is to be accounted so much in every pound, or twelve ounces *Troy.*

See more Examples of Allays of Silver, and the value thereof cast up, in the Catalogue of Foreign Coins, at the latter end inserted.

And that if Standard Silver be at five shillings the ounce *Troy*, for every penny weight that 'tis reported worse, you must account 'tis worse by so many farthings in the ounce, and for every ounce that 'tis reported worse, you must account 'tis worse by so many times five pence in every ounce: and for work and charge to refine it, you must also account one penny for every ounce that 'tis reported worse. For example.

In the Copper Cut is a Silver Assay, reported worse than Standard three ounces, and eight pen-

ny weight: Firſt, count for the three ounces, fifteen pence, and for eight penny-weight, eight farthings or two pence: and for work and charge to refine it, three pence half-penny: all which being added together, make one ſhilling, eight pence half-penny; which take out of five ſhillings, there remains three ſhillings and three pence half-penny, the value of an ounce of ſuch courſe Silver, which is one ſhilling, eight pence half-penny in every ounce worſe than Stand ſilver (of the price aforeſaid) as in the Copper Cut; and comes to this effect, (*viz.*) that for every twenty penny weight, or ounce *Troy* that 'tis reported worſe than Standard, you muſt account ſix pence, and ſo proportionable for more or leſs; for ſo much it will coſt for every ounce of ſuch courſe Silver to make it of *Sterling* goodneſs, or to change it for *Sterling*.

When you have ſo done, and your Silver being found and reported worſe than *Sterling*, you may apply your ſelf to the perſon of whom you received or bought the courſe work, and demand the return of the Money which you paid for the ſame, (upon your return of the Ware) or what other ſatisfaction ſhall be reaſonable; and upon refuſal (which I dare aſſert, will not be by one of twenty, if the work be materially faulty) you may make your Complaint to the *Maſter-Warden* of the Goldſmiths, he will cauſe the Offender (living in or about *London*) to be ſummoned to appear at the next Court of the ſaid Company (which uſually hath been, and will be about eleven of the Clock on *Wedneſdays* and *Fridays*, or one of them (if working-days) in every Week at their

Common Hall) and upon evidence of the Fact, the Wardens will (being obliged thereto by Law) procure you recompence, and puniſh the Offender; they having promiſed ſo to do in their late Precept hereafter inſerted.

If you diſlike thoſe ways of proceeding, you may go by way of Action of Debt, Bill, Plaint, or Information, at the ſuit of the party grieved, who may ſue in any of the Courts of Record at *Weſtminſter*, and thereby recover the value of the whole deceitful or adulterated Wares, together with his Charges, according to the ſaid Statute of 18 *Eliz.*

There are alſo other ways of proceeding in theſe caſes, as the afore-mentioned Statutes do plainly direct: as by Indictment at the Common Law for a Cheat and Offender againſt the Crown: in which caſes the Courts do uſually impoſe Fines ſutable to the Offence in all their circumſtances, and ſometimes the Pillory: after all which the party grieved may bring his Action, and recover the dammage ſuſtained.

Note, It is material, that you keep an account of the Day, or Month, and Year in which you bought the courſe Works; and when you have privately procured an Aſſay thereof, and do find it to be materially courſe, the ſecureſt way will be to deliver the Work it ſelf into the hands of the Aſſay-Maſter, for him to Aſſay it again; and then *ſub-pœna* him to bring the Work into Court, and give evidence how much it is worſe than Standard.

Note alſo, It is good evidence that one or more do ſwear (at the Tryal) that the Counterfeit Gold

Gold or Silver-*Work* was ſold (by the perſon in queſtion, or his Wife, or Servant) by the name of *Gold or Silver*; and there is no need to prove that it was ſold in the *name* of, or for *Standard:* or that the Seller ſaid, *I will warrant it to be good Gold, or Silver*; *or Standard-Gold, or Sterling-Silver:* for our Laws allows no Metal in *Works* to be accounted or called by the name of Gold or Silver; but that Gold and Silver of the fineneſs of Standard, or the Standard Allay.

Therefore, of whomſoever you buy the *Work*, let this be nicely obſerved, *that the Seller do ſay it is Gold, or it is Silver*; or the Buyer asking for Gold or Silver Works by the proper name; as for a Silver Hilt, or a Silver Buckle, or for a Gold Ring, *&c.* and the Seller do upon ſuch deſire, ſell or deliver it as ſuch to the Buyer.

And that the Buyer may be the more certain at the Tryal, that the courſe Works in queſtion was bought by him or her; it is very material, that before it depart out of their hands, a piece of Packthread without knot be put through the ſolid part of the Work, and a piece of paper (whereon is the day of the Month and Year, in which it was bought; and the name and weight of the Work, and the name of the Seller, his Sign, and Street) be ſealed in the incloſing knot of the Packthread; and the Buyer keeping the Seal, cannot be miſtaken, although the Work have been abſent, and in ſeveral other hands after it was bought.

But this rule is the moſt uſeful, where ſeveral Works are bought of one or ſeveral perſons, but not where the Buyer can certainly know the Work by

(by any Charractar) to be the ſame he bought of ſuch a perſon-Trader therein, but the time of buying the Work is of ſuch concern that it muſt not be omitted.

And that the perſons aggrieved may be the better encouraged to proceed for their recompence, and to puniſh the Offenders, I have here inſerted a true Copy of an Indictment in Latin, and the ſame rendered into Engliſh, taken out of the Original (now remaining of Record in the *Crown-Office*) that was preferred (in *Trinity* Term, in the 28 year of the Reign of King *Charles* the Second, *&c.*) before the Grand-Jury of Enqueſt (attending the *Kings-Bench* Court at *Weſtminſter*) againſt a perſon-offender in the Premiſſes; which Bill (being drawn up, and this way of proceeding contrived by the advice of ſeveral Counſel learned in the Law) may ſerve (with ſome little variations, as occaſion may be) for a good preſident in the like caſes.

Per

Per Jud' Trin' xxviij. Car' Secundi Regis.

Midd' ss. JUr̄ p Dn̄o Rege sup Sacram sm̄m presentant qd̄ A. B. nuper de Paroch Sancte M. in Com' predict' Aurifaber qui educat̄ fuit in arte Aurifabrorum ac per tres Annos & amplius jam ult' elapſ eandem artem apud paroch predict' in Com' predict' exercuit ac per totum idem tempus ibidem fuit liber homo Misterie Aurifabrorum Civit' London' ac quāplurima Vasa & al' res ex argento confect' pretextu artis sue pred̄ ibidem fecit & fieri causavit ac diverſ ligeis dicti Domini Regis nunc ibidem vendidit & venditioni exposuit Ac qd̄ idem A. B.

Midd' ss. THE Jury for our Sovereign Lord the King upon their Oath do present, That *A. B.* late of the Parish of St. *Martin* in the Fields in the County aforesaid, Goldsmith, who was brought up in the Trade of a Goldsmith; and for three years and more now last past hath exercised the same Trade within the Parish aforesaid in the County aforesaid, and for all that time there, was a Freeman of the Mystery of Goldsmiths of the City of *London*, and there by colour of his said Trade made and caused to be made very many Vessels and other things of Silver, and there sold and exposed to sale to divers Liege People of our said Sovereign Lord the King that now is; and that the said *A. B.* well knowing that all Vessels and other things

bene

bene ſciens q̃ omnia Vaſa & al' res ex argento confect & per homines Miſterii Aurifabꝛorum Civitat London' venditioni expoſit & exponend̃ infra Civit' pꝛe & alibi debent fieri undequaq; [Anglicè wholly] de bono & vero Argento concordañ cum Stand' Scaccarii dicti Domini Regis & ante venditionem eorundem debeant aſſaiari [Anglicè be Aſſayed] & ſignari [Anglicè marked] cum Inſigno [Anglicè the mark] Capitis Pardi [Anglice vocat the Leopards Head] per Cuſtod' Miſterii Aurifabꝛorum Civitat London' Quibus cuſtod' Inſignum ill' ad ſignand̃ Vaſa & al' res de Auro & Argento concordañ cum Standard̃ pꝛedicto confect ante eorun-

made of Silver, and expoſed and ſet to ſale by men of the Myſtery of Goldſmiths of the City of *London* within the City aforeſaid and elſewhere, ought to be made wholly of good and true Silver agreeing with the Standard of the Exchequer of our ſaid Sovereign Lord the King; and ought before the ſale thereof to be aſſayed and marked by the Wardens of the Myſtery of Goldſmiths of the City of *London* with the mark of the *Leopards Head*; which Wardens are lawfully entruſted with the Mark to mark Veſſels and other things made of Gold and Silver agreeing with the Standard aforeſaid before the ſale thereof: Nevertheleſs the ſaid *A. B.* being a perſon of an evil and diſhoneſt diſpoſition, and evilly deviſing and fraudulently

dem

dem vendiconem legitime creditur Idem tamen A. B. existens persona male & inhoneste dispositionis ac machinans nequit & fraudulent intendens ligeos & subdit dicti Domini Regis nunc falso illicite deceptive callide & subdole decipere & defraudare & leges hujus Regni Angl' subvertere vicesimo primo die Januarii Anno Regni Domini nostri Caroli Secundi Dei Gratia Angl' Scoc Franc & Hibern Regis Fidei Defensoris &c. Vicesimoseptimo apud Paroch' Sce M. in Com pred sexagint fibul' cingular [Anglice coit vocat draw Girdle Buckles] & octo fibul' Calceac coit voc Shooe Buckles de impuro & viliori Argento quā debet esse de argent mie

intending the Liege People and Subjects of our said Sovereign Lord the King that now is, falsly, unlawfully, deceitfully, craftily, and subtilly to deceive and defraud, and to subvert the Laws of this Kingdom of *England*, on the one and twentieth day of *January*, in the Seven and twentieth year of the Reign of our Sovereign Lord *Charles* the Second, by the Grace of God, of *England*, *Scotland*, *France* and *Ireland* King, Defender of the Faith, *&c.* at the Parish of St. *Martin* in the Fields, in the County aforesaid, falsly, fraudulently, and knowingly, did make and fashion threescore draw Girdle Buckles, and eight Shooe Buckles of impure and baser Silver than it ought to be, not agreeing with the Silver of the Standard aforesaid; that is to say,

con-

concord cum Stan-
dard ꝑdict videlicet
octodecim Denar in
qualibet Uncia inde
Diliorum quam Ar-
gent cum ſtandard
ꝑdicto concordañ fal-
ſo fraudulent & ſci-
enter confecit & fa-
bricavit Ac illa ſic
confect & fabricat
ante aliquam Aſſai-
acionem ſeu ſignaci-
onem corundem per
Cuſtod Miſterii Au-
rifabrorum Civitat
London' ꝓxd ſeu co-
rum alterius poſtea
ſcilicet dco vicesimo
primo die Januarii
Ano regni dicti Do-
mini Regis nunc vi-
cesimoſeptimoſupra-
dicto apud Paroch
ſancte M. in Coñ ꝓxe-
dict ut res ex Ar-
gento undequaque
confect de bono &
vero Argento con-
cordañ cum Stand
ꝓxdicto falſo illicite
deceptive & fraudu-
lenter venditioni ex-
poſuit ac diver li-

Eighteen pence in every ounce thereof worſer than the Silver agreeing with the Standard aforeſaid; And thoſe things ſo made and faſhioned before any Aſſay or Mark of the ſame by the Wardens of the Myſtery of Goldſmiths of the City of *London* aforeſaid, or either of them, Afterwards, that is to ſay, on the ſame one and twentieth day of *January*, in the aforeſaid ſeven and twentieth year of the Reign of our ſaid Sovereign the King that now is, at the Pariſh of St. *Martin* in the Fields in the County aforeſaid, as things made wholly of good and true Silver agreeing with the Standard aforeſaid, falſly, unlawfully, deceitfully, and fraudently expoſed to ſale; And then and there expoſed to ſale, and ſold to divers liege People of our ſaid So-

geis

geis dicti Domini Regis nunc Jur̃ predictis ignot̃ ad tunc & ibidem vendicioni exposuit & vendidit in cõtempt̃ dicti Domini Regis nunc legumq; suarũ ad grave dampnum & manifestam decepcionem ligeorum predict̃ qui hujusmodi fibulas cingulat̃ & fibul̃ Calceam̃ emẽ in malum Exemplum omnium aliorum in consim̃ casu delinquẽ ac contra pacem dicti Domini Regis nunc Coroñ & Dignitat̃ suas, &c.

vereign Lord the King that now is, unknown to the Jury aforesaid, in contempt of our said Sovereign Lord the King that now is, and of his Laws, to the great damage and manifest deceit of the said liege People who bought the said draw-Girdles-Buckles, and Shooe-Buckles, to the evil example of all others offending in the like case, against the peace of our said Sovereign Lord the King that now is, his Crown and Dignity.

This

This Information following was preferred againſt a perſon-Offender in the premiſſes, and now remains of Record in the Crown-Office.

De Term. Sancti Michaelis An. Reg. Dom. Noſtri Car' Secundi Reg. Angliæ, &c. xxix.

Midd' ſſ. Memorand' qd S. A. Armiger Coronat' & Attorn' Dñi Regis in Cur' ipſius Regis coram ipſo Rege qui pro eodem Dño Reg in hac parte ſequitur in propria ꝑſona ſua ven' hic in Cur' dicti Dñi Regis coram ipſo Rege apud Weſtm' die Martis pror' poſt tres ſeptimanas Sancti Michaelis iſto eodem termino & p eode' Dño Rege da' cur' hic intelligi & informari qd C. D. de Paroch Sancti Martini in Campis in Com' Midd' Aurifab qui per tres Annos & Michaelmas *Term in the Nine and twentieth year of the Reign of our Sovereign Lord* Charles *the Second, now King of* England, *&c.*

Midd' ſſ. *Memorandum*, that *S. A.* Eſq; Coroner and Attorney of the Lord the King, in the Court of the ſaid King, before the ſaid King, who for the ſaid Lord the King in this behalf followeth, in his proper perſon came here in the Court of the ſaid Lord the King, before the ſaid King at *Weſtminſter*, on *Tueſday*, next after three weeks of St. *Michael*, the ſame Term, and for the ſaid Lord the King, gave to the Court here to underſtand and be informed, that *C. D.* of the

amplius

amplius jam ult' elapſ artem Aurifabr' in Com' predict exercuit ac quāplurima vaſa & al' res ex argento confect pretextu artis ſue predict' ib'm fecit & fieri cauſavit ac diverſ ligeos dicti Dñi Regis nunc vendicon exposuit ac qd idem C.D. bene ſciens qd omnia vaſa & al' res ex argento confect & p homines miſterii Aurifabrorum vendicon expōit & vendend infra Com' pred & alibi infra hoc Regnū Angl' debent fieri undequaq; [Anglicè wholly] de bono & vero Argento Concordan cum Standard Scaccarii dicti Dñi Regis pred tamen C. D. exiſtens perſona male & inhoneſte diſpoſitionis ac machinans nequiter & fraudulent intendens ligeos &

the Pariſh of St. *Martin* in the Fields, in the County of *Middleſex* Goldſmith, who for three years and more now laſt paſt, the Trade of a Goldſmith in the County aforeſaid hath exerciſed, and there by colour of his ſaid Trade made and cauſed to be made very many Veſſels and other things of Silver, and expoſed to ſale to divers Liege people of the ſaid Lord the King that now is; And the ſaid *C. D.* well knowing that all Veſſels, and other things made of Silver, and expoſed and ſet to ſale by men of the Myſtery of Goldſmiths within the County aforeſaid and elſewhere within this Kingdom of *England*, ought to be made wholly of good and true Silver agreeing with the Standard of the Exchequer of the ſaid Lord the King: Nevertheleſs the ſaid

ſubdit' dicti Dñi Regis nunc falſo illicite deceptive callide & ſubdole decipere & defraudare ac leges hujus regni Anglie ſubvertere ſexto die Septembris Anno viceſimo nono & diverſ' al' diebus & vicibus tunc antea apud Paroch' Sancti Martini in Campis in Com' p'ed' ſex manibus argent' (Anglice vocat' Silver Hilts for Swords) ſex al' res argent' p' manibus (vocat' Pommels for Hilts of Swords) tria locum argent' (Angl' vocat' Silver Lockets) & ſex roſtra argent' (Anglice vocat' Silver Chapes for Scabbards) inſimul ponderan' triginț & quatuor uncias & amplius de impuro & viliori argento quam debent eſſe, viz. de argent' mic' concord' cum Stan-

C. D. being a perſon of an evil and diſhoneſt diſpoſition, and evilly deviſing, and fraudulently intending the Liege People and Subjects of the ſaid Lord the King that now is, falſly, unlawfully, craftily and ſubtilly, to deceive and defraud, and to ſubvert the Laws of this Kingdom of *England*, on the ſixth day of *Septembe*r, in the nine and twentieth year aforeſaid, and divers other days and times, then before, at the Pariſh of St. *Martin* in the Fields, in the County aforeſaid, ſix Silver Hilts for Swords, ſix Silver Pommels for Hilts of Swords, three Silver Lockets, and ſix ſilver Chapes for Scabbards, together weighing thirty four ounces and more of impure and baſer Silver than it ought to be, *viz.* of Silver not agreeing with the Silver of the

dard

dard̄ ꝓdict̄ existent̄ octodecim Denar̄ in qualibet Uncia inde Viliozum quam Argent̄ cum Standard̄ ꝓ̄ concordā̄ vi & armis, &c. falso ilicite fraudulent̄ & scienter cuidā̄ R. L. un̄ ligeozum & subditozum dicti Dn̄i Regis nunc adtunc & ibm̄ ut res ex argent̄ undequaq; confect̄ de bono & vero argento concozd̄ cum Standard̄ predicto vendicon̄ exposuit & vendidit in Contempt̄ dicti Dn̄i Regis nunc legumque suarum in malum exemplum omnium al̄ in tali casu delinquen̄ ac contra pacem dicti Dn̄i Regis nunc Coron̄ & Dignitat̄ suas, &c.

Standard aforesaid, being eighteen pence in every ounce thereof worser than the Silver agreeing with the Standard aforesaid by force and Arms, *&c.* falsly, unlawfully, fraudulently, and knowingly, to one *R. L.* one of the Liege People and Subjects of the said Lord the King that now is, then and there as things made wholly of good and true Silver, agreeing with the Standard aforesaid, exposed to sale, and sold, in contempt of the said Lord the King that now is, and of his Laws, to the evil example of all others offending in the like case against the peace of the said Lord the King that now is, his Crown & Dignity, *&c.*

The person that this Information was preferred against, is a Private Worker; and it is strongly suggested upon good grounds) *that he is an Alien*, and never served any time of Apprentiship to the Goldsmiths Trade: And that he frequently works any kind of *old course Gold or Silver* into Hilts, &c. at the desire of, and for the Cutlers; and for want of such course Metals, he as frequently Allays of his own Silver *that is finer or Standard*, to the common courteness, as in this Information: and of the same course Silver makes Hilts, &c. of considerable quantities weekly

This Indictment following was preferr'd at the Sessions holden at Guild-hall London, *against a Man and a Woman Partners Offenders in the Premisses; and was removed by* Certiorari *into the* Kings-bench-Court; *and now remains of Record in the* Crown-Office.

De Termino S. Hillarii Annis Regni Domini Nost' Caroli Secundi nunc Regis Angl', *&c.* xxix. & xxx.

Lon. ss. MEmorand qd ad general Session pacis Dñi Regis tent pro Civit London apud Guild-hall ejusdem Civit ac infra eandem Civit die Mercur scil Quartodecimo die Novembris Anno Regni Dñi nostri Caroli secundi Dei Gratia Angl' Scot' Franc' & Hibern Regis Fidei Defensor, &c. Vicesimo nono corã F. C. Milit Major Civit London' T. A. Milit & Barr' J. L. Milit T. B.

Hillary *Term, in the Nine and Twentieth and Thirtieth years of the Reign of our Sovereign Lord* Charles *the Second, now King of* England, *&c.*

Lond. ss. MEmorandum, that at the General Sessions of the Peace of the Lord the King, held for the City of *London* at the *Guild-hall* of the same City, and within the same City, on *Wednesday*, that is to say, the 14*th.* day of *November*, in the Nine and Twentieth year of the Reign our Soveraign Lord *Charles* the Second, by the grace of God of *England, Scotland, France* and *Ire-*

Milit

Milit T. D. Milit & J. E. Milit Aldris Civit pred Justic dicti Dñi Regis ad Pacem in Civit pdict conservand nec-non ad divs felon tñsgr & al malefact' infra eandm Civit ppetrat audiend & terminand assign p Sacrum duodecim Jur' probor & legalm hominu Civit London pred qui adtunc & ibm Jurat & onerat existen ad Inquirend p dicto Dño Rege & Corpore Civit pred existit presentat qd E. F. de Paroch S. Andree Holborn in Warda de Farringdon extra London pred Aurifabr als dict's E. G. de Paroch & Warda pred Aurifabr & H. I. de Paroch & Warda pred vid qui p tres annos & amplius jam ult elapss artem Aurifabr in Civit London & Suburb ejusdem

land King, Defender of the Faith, *&c.* Before *F. G.* Knight, Lord Mayor of the City of *London*, *T. A.* Knight and Barronet, *J. L.* Knight, *T. B.* Knight, *C. D.* Kinght, and *J. E.* Knight, Aldermen of the City aforesaid, Justices Assigned to keep the Peace of the aforesaid Lord the King in the City aforesaid; as also to hear and determine divers Fellonies, Trespasses and other Misdemeanours within the same City committed, by the Oath of twelve of the Jury, good and lawful men of the City of *London* aforesaid; who then and there being Sworn and charged to enquire for the said Lord the King, and the body of the City aforesaid; it is presented that *E. F.* of the Parish of St. *Andrew Holborn*, in the Ward of *Farringdon* without *London* aforesaid, Goldsmith; other-

exercuer & uterq; eor exercuit, ac quamplurimas res er argento confect pretertu artis pred ibm fecer & fieri cauſaver & uterq; eor fecit & fieri cauſavit, ac dibs Ligeos dei Dñi Reg nunc ibm vendicon expoſuer & uterq; eor vendicon expoſuit ac qd iidem E.F. alſ G. & H.I. bene ſciens & uterq; eor bene ſciens qd omes res er argento Confect & p ipſor uten art miſter Aurifabr vendicon expoit & vend infra Civitat pred & alibi infra hoc regnu Angl debent fieri undequaq; (Anglicè, wholly) de bono & vero argento concord cum Standard Scaccarii dei Dñi Regis, pred tamen E.F. alſ G. & H.I. exiſten pſon malor & inhonest diſpoic con ac Machiñ nequit & fraudulent in-

wiſe called *E. G.* of the Pariſh and Ward aforeſaid Goldſmith; and *H. J.* of the Pariſh and Ward aforeſaid, Widdow; who for three years and more, now laſt paſt, the Trade of a Goldſmith in the City of *London* and Subburbs of the ſame, have Exerciſed, and either of them hath Exerciſed: and there by colour of the ſaid Trade, they made and cauſed to be made, and either of them made and cauſed to be made very many things of Silver, and to divers Liege people of the ſaid Lord the King that now is, then expoſed to Sale, and either of them expoſed to Sale: And that the ſaid *E. F.* alias *G.* and *H. J.* well knowing, and either of them well knowing, that all things made of Silver, and by perſons uſing the Trade and Miſtery of Goldſmiths, expoſed and

tender

tendẽ Ligeos & Subdit dci Dñi ad tunc falso illicite deceptive callide & subdole decepe & defraudare ac Leges hujus Regni Angl subvertere tricesimo die Augusti Anno Reg' Dñi nostri Caroli Secundi Dei gratia Angl Scoc Franc & Hibeꝛ Regis Fidei Defensoꝛ, &c. Vicesimo nono apud London, videlt in Paroch S. Andree Holborn in Warda de Farringdon extra London pꝛõ quindecim uncinul argent (Anglice vocat' Silver Hooks) quatuoꝛdecĩ Locul argent (Anglice vocat' Silver Lockets) & quinquagint & sex Rostra argent (Anglice Silver Chapes for Scabbards) in simul ponderam tresdecim uncias & amplius de impuro & villioꝛi argent quĩ debent esse (viz.) de argento

set to Sale within the City aforesaid, and elsewhere within this Kingdom of *England*, ought to be made wholly of good and true Silver, agreeing with the Standard of the Exchequer of the said Lord the King. Nevertheless, the said *E. F.* alias *G.* and *H. J.* being persons of an evil and dishonest disposition, and evilly devising and fraudently intending the Liege people and Subjects of the said Lord the King. Then falsly, unlawfully, craftily and subtilly to deceive and defraud, and to subvert the Laws of this Kingdom of *England*, on the Thirtieth day of *August*, in the nine and twentieth year of the Reign of our Soveraign Lord *Charles* the Second, by the grace of God, of *England*, *Scotland*, *France* and *Ireland* King, Defender of the Faith, &c. At *Lon-*

mie concordan cu Standard pred existen duobus solid & quatuor denar in qualib unc inde villior q n argent cum Stand pred concordan vi & armis, &c. falso illicite fraudulent & scienter cuidā R.L. un Ligeorum & Subditor dci Dni Reg nunc adtunc & ibm ut res ex argent undequaq confect & valor quinq Solid p qualibet unc inde vendicon exposuer & vendider & uterq eor vendicon exposuit & vendidit in contempt dci Dni Regis nunc Legu q suar & ad grave & manifest u decepcon pfat R. L. in malu exemplu &c.

don, (to wit) in the Parish of St. *Andrew Holborn*, in the Ward of *Farringdon* without *London* aforesaid, fifteen Silver Hooks, fourteen Silver Lockets, and fifty six Silver Chapes for Scabbards, together weighing thirteen Ounces and more of impure and baser Silver than it ought to be (*viz.*) of Silver not agreeing with the Silver of the Standard aforesaid, being two Shillings and four pence in every Ounce thereof worser than the Silver agreeing with the Standard aforesaid, by force and arms, *&c.* falsly, unlawfully, fraudently and knowingly, to one *R. L.* one of the Liege people and Subjects of the said Lord the King that now is: Then and there as things made wholly of Silver, and worth five Shillings for every Ounce thereof exposed to Sale and Sold, and either of them exposed to Sale and Sold in contempt of the said Lord the King that now is, and of his Laws, and to the great and manifest deceipt of the aforesaid *R. L.* to the evil example, *&c.*

Now

Now will any perſon be diſcouraged, by the apprehenſion or fancy, that the trouble will be ſo great in getting recompence, that it were better to bear the loſs and be contented ſo to be cheated, when the way and rules I have laid down are ſo plain, ſo unfeignedly true, and ſo eaſily to be followed, that every perſon (of the capacity but one degree above a Natural) may be capable thereof.

And ſince theſe Directions are ſo plain, 'tis pity but he ſhould be cheated that will not uſe them for prevention, or to get recompence when deceived.

But it is to be obſerved, that there is a ſet and limited time for proceeding in theſe caſes in courſe of Law; which time being expired, all perſons are totally barr'd therein: See the Statute 31 *Eliz.* 5. & Stat. 21 *Jac.* 16. the branches thereof to this purpoſe are *Verbatim* thus (*viz.*)

Stat. 31 *Eliz.* 5. **And be it further Enacted by the Authority aforeſaid, That all Actions, Suits, Bills, Indictments, or Informations, which after twenty days next after the end of this Seſſion of Parliament ſhall be had, brought, ſued, or exhibited for any forfeiture upon any Statute-penal, made, or to be made, whereby the Forfeitures is or ſhall be limited to the Queen, her Heirs or Succeſſors only, ſhall be had, brought, ſued, or exhibited within two years after the Offence committed, or to be committed againſt ſuch Act-penal, and not after two years.**

And that all Actions, Suits, Bills, or In-

Informations which after the said twenty days shall be had, brought, sued, or commenced for any forfeiture upon any Penal Statute made or to be made (except the Statutes of Tillage) the benefit and Suit whereof is or shall be by the said Statute limited to the Queen, her Heirs or Successors, and to any other which shall prosecute in that behalf, shall be had, brought, sued or commenced, (by any person that may lawfully pursue for the same as aforesaid) within one year next after the Offence committed, or to be committed against the said Statute.

And in default of such pursuit, that then the same shall be had, sued, exhibited or brought for the Queens Majesty, her Heirs or Successors at any time within two years after that years end: And if any Action, Suit, Bill, Indictment or Information for any Offence against any Penal Statute made or to be made (except the Statute of Tillage) shall be brought after the time in that behalf before limited, that then the same shall be void and of none effect: any Act or Statute made to the contrary notwithstanding.

Provided always, That where any Action, Information, Indictment, or other Suit, is or shall be limited by any Statute-penal to be had, sued, commenced, or brought, within shorter time than is afore rehearsed, that in every such case the Action, Information, Indictment or other

Suit

Suit, shall be brought within the time limited by such Statute.

Statute 21 Jac. 16. And be it further Enacted, That all Actions of Trespass quare clausum fregit, all Actions of Trespass, Detinue, Action sur Trover and Replevin for taking away of Goods and Cattel, all Actions of Account upon the case (other than such accounts as concern the Trade of Merchandise between Merchant and Merchant, their Factors or Servants) all Actions of Debt grounded upon any lending or contract without specialty; all Actions of Debt for Arrearages of Rent, and all Actions of Assault, Menace, Batter, Wounding and Imprisonment, or any of them, which shall be sued or brought at any time after the end of this present Session of Parliament, shall be commenced and sued within the time and limitation hereafter expressed, and not after: (that is to say)

The said Actions upon the case (other than for slander) and the said Actions for Accompt, and the said Actions for Trespass, Debt, Detinue, and Replevin for Goods or Cattel, and the said Actions of Trespass quare clausum fregit, within three years next after the end of this present Session of Parliament, or within six years next after the cause of such Actions or Suit, and not after.

And the said Actions of Trespass, of Assault, Battery, Wounding, Imprisonment,

ment, or any of them within one year next after the end of this preſent Seſſion of Parliament, or within four years next after the cauſe of ſuch Actions or Suit, and not after: And the ſaid Action upon the Caſe for Words, within one year after the end of this preſent Seſſion of Parliament, or within two years next after the words ſpoken, and not after.

By the Stat. 21 Jac. 4. Actions Popular, which may be preſented before the Juſtices of Aſſize, Niſi prius, Goal Delivery, and Oyer & Terminer or of the Peace, ſhall be Proſecuted only in the County where the Offences were committed, and not elſewhere (except for Recuſancy, Maintenance, Champerty, buying of Titles, concealing of Cuſtoms, or Tranſporting of Gold, Silver, Munition, Wool, Woolfells or Leather.)

Upon default of proving that the Offence was committed in the ſame County where the Action is laid, the Defendant ſhall be found not guilty.

The Stat. 31 *Eliz.* 5. Extends not to an Action or Information by the Party grieved, for he may bring it in any County, Allens Caſe Mich. 40 *Eliz.* Cro. 645.

All Suits for uſing a Trade not having been an Apprentice thereto ſeven years, ſhall be heard and determined in the Quarter Seſſions or Aſſizes of the County, &c. and not out of it, Stat. 31 *Eliz.* 5.

And my further Advice is, That every perſon be careful to buy no Silver Work but what is

marked

marked as the Laws require: That is, the Leopards-head, *or* Lyon, *or both; and also the* Workers mark *be set on all manner of* Vessels, *and all manner of* Hilts *for* Swords, *and* Buckles *(for Girdles and Belts) and other Harness of Silver; and also the Workers mark on all other sorts of Silver Works whatsoever (except as aforesaid)* and if that proves naught, recompence is easily had; either of the Company, if marked with their Marks (which by reason of the care taken therein are not set on Silver, worse than Standard, in compass of my Experience,) or the Maker or Seller by his Mark will be easily found out whereby to obtain recompence of him.

And in case of haste, where the Buyer cannot stay for the Companies Marks, I advise him to take care that he know the Workman to be able and honest, and his mark upon every part of the Work that is wrought asunder, and afterwards soddered together as aforesaid.

The Intent thereof is, that the Buyer should take care that the Worker and Seller be *Honest*; then there will be the less fear of being cheated: But if the Work happen amiss, unknown to the Maker, by ill Servants or the like, and he be only *Honest*, and not *Able*; how then will the recompence be made? But if he be both *Able* and *Honest*, his *Honest* Inclinations with his Ability of Purse, will never suffer the wronged person to go without satisfaction.

It is queried, Whether it be lawful for a Goldsmith, or other Trader in Goldsmiths Works, to Sell, Exchange or Barter Gold or Silver *Works* that is worse than Standard, if he take no more

for

for the Mettal then 'tis worth: Or for a Goldſmith to work it, if it be brought by the perſon that is to receive it again when wrought up into Wares; or to work it when 'tis beſpoke ſo to be by the perſon that will receive it when ſo made up; or (it being the Traders own) to keep it in the Shop or other place where the Goldſmiths works are uſually expoſed to Sale.

The Solution hereof is of great concern to the Reformation; for therein is comprehended the grand creeping holes of all Diſſenters: Therefore I offer (with all its Circumſtances) to the ſerious conſideration of the Shop-keepers and Workmen, and all other perſons concerned, this my anſwer, which is by way of Caution and Advice.

That it is Poſitively againſt the Laws afore recited, for a Goldſmith to *Shape or Faſhion* Gold or Silver that is worſe than Standard into any ſort of *Work*, and the ſame *Workmanſhip* to Sell, expoſe to Sale, Exchange or Barter; *And all ſuch Works* be *utterly unlawful*, and therefore not to be Sold, expoſed to Sale, Exchanged or Bartered *by any Trader therein*, under any pretence or colour whatſoever, be it for the juſt value, or more or leſs. And if the Worker do receive Courſe Gold or Silver to Work for another, and is only payed for the *Faſhion*; or the Courſe Gold or Silver being his own, do receive but the juſt value thereof, and any thing above that for the *Workmanſhip*; yet ſuch Metal and Workmanſhip being Sold or Bartered, if it happen to be queſtioned, both the Maker and Seller will be lyable, and may be puniſhed as the Laws appoint.

For

For although the firſt Buyer, or Receiver-Shop-keeper, may not be cheated, yet its too true that ſuch falſe *Works* will by him be ſold or Bartered to the *Wearer* in the ſtead or name, and for the price of good and lawful Gold or Silver-Works: Therefore to prevent all Conſequential Deceits in theſe Caſes, the Laws are poſitive, that no Gold or Silver worſe than Standard, ſhall be wrought, ſhaped or faſhioned into any manner of Gold-ſmiths works whatſoever; and (having any the leaſt of *Faſhion or Workmanſhip*, fit for the uſe it was made) be Sold, put to ſale, exchanged, or bartered by any Trader therein, under any pretence or colour whatſoever. See the afore cited Statutes 28 *Ed.* 1. 20. 37 *Ed.* 3. 7. 2 *Hen.* 6. 14. 18. *Eliz.* 15.

The beſt Excuſe that can be made in theſe caſes is, That ſuch courſe *Work* is for the bringers or beſpeakers own wearing: If that be true, the danger is the leſs, becauſe the Worker lyes open only to one; But his Wiſdom would be the greater, not to lay himſelf open to any.

And if any ſuch unlawful Works (either new or old) do happen to be bought, or received in barter, by the Worker or Shopkeeper in the way of their Trades. The ſecureſt courſe to prevent danger therein, is to immediatly ſpoil and deface the *Faſhion or Workmanſhip thereof*, and then the Wardens or Surveyers have no Authority to Seize it in their Search; and the Selling, expoſing to Sale, Exchanging or Bartering ſuch Metal without Workmanſhip is poſitively lawful.

Upon what is here declared, It is hoped no perſons will ſuffer themſelves to be deluded with the

the pretences of the Seller of unmarked and ſuſpected Silver Work, (*viz.*)

That the Work will not Bear the Marks as before is mentioned; for 'tis manifeſt and well known by great experience, That all Silver Works comprehended under the name of *Veſſels*, and under the name of *Harneſs*, (Hilts for Swords and Buckles being included under that denomination) will bear the Marks appointed with as much conveniency as need to be deſired, for the Veſſels are generally marked with the bigger Marks aforeſaid without exception; and for Silver *Hilts and Buckles*, (wherein the difficulty is ſuppoſed to lie) the Company have ſmall Marks made on purpoſe for them, and the Work being firſt marked by the Worker with marks of Ink thus (o) on every place where the Workman thinks it moſt convenient to bear the Companies Marks; And the hollow Work being filled with Lead, (which is afterwards to be melted out again) the Wardens will, or may, ſome on the Anvil, and ſome on other Lead which is put into a Vice for that purpoſe, ſtrike their Marks on thoſe places, both of wrought and plain Work, without defacing or hurting the ſame.

Nor need any perſon be deluded by pretence that the Workmen have not time to get it marked at Goldſmiths Hall; when if the Work be carried to the Office on any of the Aſſay-dayes aforeſaid, before the hour of Nine in the Morning, they may (if it be good Silver) have it out ready marked at 6 of the Clock, or before in the Afternoon of the ſame day.

Nor by pretence that the Work will be ſo abuſed

abuſed by the ſtriking thereon the Companies Marks, that it cannot be finiſhed Workman-like, or that more Silver will be detained from the Workmen than the allowance of four Grains out of every pound weight of Work.

Nor by the pretence that the Servants of the Companies Officers will abuſe the bringer or owner of the Work either in word or demeanour, though ſome have been too rude and malapert.

Theſe indeed are principal (though vain) excuſes for not bringing their Works for the Companies Marks: for certain it is the Wardens will not allow, but ſeverely reprehend their Officers and Servants that ſhall abuſe any perſon or Work whatſoever; or refuſe or neglect to make, or return the Aſſays as before is mentioned; or not return all the Silver with the Work, except the allowance aforeſaid.

And if the Wardens refuſe or neglect to ſet their Marks on Silver Work that is Standard, or do not ſet them as they ought; or if they or their Officers or Servants ſhall do any damage to the Work by ſtriking the Marks, or refuſe to make and report the Aſſays as aforeſaid; or ſhall detain any Silver from the Workmen above the allowance of four grains out of every pound weight of Work, an Action well lies againſt them; and they are beſides by Law otherwiſe puniſhable, and compellable to ſtrike their Marks as Workman-like on the Work as the Maker ſtrikes his own Mark thereon: and alſo to perform all other things according to the truſt repoſed in them: and for neglect or abuſe thereof, their Franchiſes may be ſeized into the Kings hand.

The truth is, the ready and careful making and returning the Aſſays, and marking and returning the Work is of ſo great concern, that if it be neglected, and the Workmen thereby diſcouraged, they will make any ſhift, rather than bring their Works *to be there approved*; and then by conſequence fall to working as courſe Gold and Silver as (by their ſubtilties) they can put off, to the unskilful.

Nor let the Buyer ſuffer himſelf to be deluded at any time upon pretence that Standard Gold or Silver is too ſoft, and not ſo ſerviceable as that which is courſer; for that pretence is vain: and 'tis well known by great experience (to the honor of the contrivers of that Allay) that both Gold and Silver of the Standard goodneſs well wrought into any ſorts of Wares, is in every reſpect, better and more ſerviceable than a courſer Allay.

For Inſtance, in ſome particular Works on which thoſe idle pretences are generally grounded; as Gold-Rings of all ſorts, with Stones and without, and * Collets of Rings, and all other Jewels whatſoever; and Gold and Silver Watch-Caſes, and ſuch like works: for all which I do further aſſert, that the honeſt and ingenious Artiſts or Workers of theſe Works, and of all other ſorts of Gold and Silver Works whatſoever, will avouch the truth of my Aſſertion;

* Collets of Rings are the thin Plates that encompaſs and faſten the Stones; which being made of Gold or Silver worſe than Standard, will not cloze, but ſpring from the Stones, and thereby endanger their falling out; but if made of Standard, will comply, and cloſely clinch, and joyn to the Stones, and the work will be more compleat, and the Stones more ſecurely preſerved.

ſertion; and if queſtioned upon the ſame before a Court of Judicature, they will not, neither dare they ſwear the contrary; but that both Gold and Silver of the Standard goodneſs well and Workman-like wrought into any ſorts of Rings, Jewels, and any other ſorts of Goldſmiths Works whatſoever, is for *decency, credit, and Service, and in every other reſpect whatſover*, better than a courſer Allay, which moſt times by reaſon of the adulteration is found in the wearing not only of a cankering and ſtinking nature, and a braſſie complexion, but very brittle and rotten.

The truth is, the gains by adulterating the Gold and Silver Works is ſo ſweet and enticing, that what excuſe will not theſe Adulterers find, that they may have their unlawful liberty. I remember, that when Silver Hilts were firſt taken notice of to be ſo exceedingly adulterated, and debaſed, it was the pretence of many of the Workers, that *Sterling* would not *run* into *Hilts* to make good work; and therefore they muſt of neceſſity make them courſer; and to my knowledge *Sterling* was delivered to a Worker to make a Hilt; and becauſe he would not thereby betray or prevent the diſhoneſt gains in ſuch Works, he gave it a *half-heat*; by which, and ſome other means, it became defective, and unfit for uſe: and ſo he returned the Silver *as too fine* to make ſuch Works. Which I coming to underſtand, ſet to the work my ſelf, and made *Sterling* run into the moſt difficult ſort of Hilts, without any defect in the Work, *and as ſerviceable as Iron*; upon which I gave out, that this was a new Invention; and being ſo conſiſtent with the Laws, I would

Petition his Majeſty for the ſole making of *Sterling-Hilts* for fourteen years: which the reſt of the Silver-Hilt-makers hearing of, every one then could, and did, make *Sterling* into all ſorts of Hilts in every reſpect *better* than the Silver of a courſer Allay. So every evil diſpoſed Goldſmith will make a hundred falſe pretences to continue their *cheating gains*. But if the honeſt *Workers of Standard* would but joyn together, and make but the leaſt attempt for a *Patent* to have the ſole Working of *all Gold and Silver Works that are ſo much talked of, that they cannot be made of Standard, ſo decent and ſerviceable, as of a courſer Allay*; I dare aver, that then you would find every Worker can and will make all their Works of *Standard* (as the Laws require) without ſuch frivolous ſcruples or pretences, rather than to be put by their Trades; *but if there ſhould be any ſort of Works that cannot (for the conveniency deſired) be made, but of Gold or Silver courſer than the Standard-Allay, ſuch Works are not to be made*, but wholly omitted *as things directly repugnant to our Laws*.

Neither let the pretence of the Seller of adulterated Wares delude you, (*viz.*) That he abates as much in the Faſhion as the Silver is allayed worſe than Standard; when 'tis well known that moſt times for every ſix-pence he abates in the faſhion of ſuch courſe Silver Works he gains one ſhilling ſix-pence, or two ſhillings, or more by the Allay in ſuch work.

Or by his promiſe, that he will at any time allow five ſhillings the ounce for the Silver again though it be broken to pieces: For by experience it is evident, that very few Silver Wares come again

again to be ſold to the ſame hand, many being either kept to poſterity, or transferred by gift; and if neceſſity induce a ſale, it is moſt commonly in ſome place remote from the place where it was bought. and then they muſt take what they can get for it; which (if unmarked Wares) will not be more than 'tis worth.

Neither let the wearing Buyer ſuffer himſelf to be deluded at any time by pretence of thoſe that are only buyers and ſellers of Goldſmiths Works, that they buy and receive all their new Silver Works for Standard, when 'tis too frequent that their meanings are, that the money they paid for it is Standard, and know the Works to be much worſe..

Or that they give a Standard price for all their new Silver Works, when 'tis too frequent, that the value of the Metal and Workmanſhip are both included to make up that ſum by the ounce: then it may well be imagined what ſort of Silver that muſt be, and how neceſſary it is for the wearer to obſerve the rules I direct in buying either Gold or Silver Works.

I have made but little mention of Gold Wares, and of the proviſion made, to prevent deceit therein, becauſe Gold Wares are much leſs common than Silver Wares; I ſhall therefore only propoſe, that by the ſame ways and method by which you make diſcovery of the goodneſs or badneſs of Silver, you may alſo make diſcovery of the goodneſs or badneſs of Gold, and recover recompence if wronged, and puniſh the Offenders; only with this difference, (*viz.*)

That as the whiteſt Silver is the beſt, ſo the

Gold of the deepeſt yellow is the beſt; and the more the Gold inclining to a red or a pale yellow, 'tis ſo much the courſer.

And as the Aſſay-Maſter in his Reports of the goodneſs of Silver; ſets it down by half-penny weights, and penny weights, and ounces *Troy*; ſo in his report of a Gold Aſſay he ſets it down by Carracts and Carract-grains, and half Grains, and quarter Grains.

For the underſtanding of which you are to know, that *Carract* is a term given (by the Officers of the *Mint*, and the *Wardens* of the Goldſmiths) to a certain compoſition of weights, that are only uſed for Aſſaying and computing the Standard of Gold, and contains either the twenty fourth part of a pound *Troy*, or the twenty fourth part of an ounce *Troy*, and are compounded thus, (*viz.*) of the pound Carracts, two penny weight and twelve grains *Troy* make a Carract-grain; four of ſuch Carract-grains make one Carract (which is half an ounce, or ten penny weight *Troy*) and twenty four of ſuch Carracts make one pound, or twelve ounces *Troy*: And of ounce Carracts, five *Troy*-grains make one Carract-grain, and four of ſuch Carract-grains make one Carract, and twenty four ſuch Carracts make one ounce *Troy*.

Theſe two ſorts of Carracts are to one effect in Aſſaying and Computing the Standard of Gold; for if you calculate the Aſſay-maſters reports by the pound-Carracts, you muſt caſt up the value of a pound weight of Standard-Gold, which ſuppoſe to be 48 *l.* and out of that ſum take ſo many 24th. parts, (that is, 40 *s.* each part) as he reports

the number of Carracts that 'tis worſe; and after that rate for every grain and half grain; and for every Carract of this ſort that 'tis reported worſe, you muſt alſo deduct 4 *s* for charge, and for every grain of this ſort 1 *s*. charge, and for half a grain 6 *d* charge for work, and loſs, to make it of Standard goodneſs: all which being taken out of the 48 *l*. divide the remainder into twelve parts, every of which part is the value of an ounce of the courſe Gold. 1 or example.

In the Copper cut aforeſaid is a Gold Aſſay reported by the Aſſay-maſter, worſe two Carracts three Grains: Firſt caſt up the value of a pound of Standard Gold at 48 *l*. then count what two Carracts three Grains of ſuch Gold is worth, which is 5 *l*. 10 *s*. to which add the 4 *s*. *per* Carract, and one ſhilling *per* Grain for charge, which is 11 *s*. all which comes to 6 *l*. 1 *s*. which take out of the 48 *l*. and there remains 41 *l* 19 *s*. which divide into twelve parts, every of which parts or ounces of ſuch courſe Gold will be worth 3 *l*. 9 *s*. 11 *d*. which is 10 *s*. 1 *d*. worſe than Standard Gold, as in the Copper Cut aforeſaid.

If you calculate the reports by *ounce Carracts*; Firſt, conſider the value of an ounce of Standard Gold, which ſuppoſe to be 4 *l*. then out of that ſum take ſo many 24th. parts (that is 3 *s*. 4 *d*. the part) as the Aſſay Maſter reports the number of Carracts that 'tis worſe, and after that rate for every grain and half grain, and for ſo many Carracts (*of this ſort*) that 'tis reported worſe, you muſt alſo deduct 4 *d*. for charge of work and loſs to make it of Standard goodneſs, and for every Grain 1 *d*. and for half a grain *ob*. For example.

In the Copper Cut aforeſaid, the Gold Aſſay being reported worſe two Carracts three Grains; firſt count the value of an ounce of Standard Gold at 4 *l.* then count what two Carracts three Grains is worth (at that rate) which is 9 *s.* 2 *d.* to which add the 4 *d. per* Carract, and 1 *d. per* Grain for charge, which is 11 *d.* all which comes to 10 *s.* 1 *d.* which take out of the 4 *l.* the remainder is 3 *l.* 9 *s.* 11 *d.* the value of an ounce of ſuch courſe Gold, which is 10 *s.* 1 *d.* worſe than Standard Gold; as in the Copper Cut.

The calculation of the Aſſay-Maſters Reports by the pound Carracts, being the harder way, I adviſe the uſe of the ounce-Carracts before the other.

So that if Standard Gold be worth four pound the Ounce, for every Cararct he ſets down 'tis worſe, you muſt account that in the Ounce Troy 'tis worſe by ſo many times 3 *s.* 8 *d.* And for every grain he ſets down 'tis worſe, you muſt account it worſe by ſo many times 11 *d.* in the Ounce *Troy.* And for every demy or half grain, 5 *d. ob.* for ſo much it will coſt to make it of Standard goodneſs, or to change it for Standard.

And further you are to know, That twenty and two of the aforeſaid Carracts of the fineſt Gold, and two Carracts of fine Copper and Silver equal parts, makes an Ounce or a Pound of Gold of the Allay, appointed (by the Stat. 18 *Eliz.* 15. afore cited, by theſe words (to wit) **not leſs in fineneſs, than that of twenty two Carracts** to be the Standard for all Gold Wares, (worſe than which Allay no Gold Wares are to be made upon the penalty therein mentioned.)

An

And that 12 Grains Troy is enough for making an Aſſay of Gold: The accuſtomed Fee for making ſuch Aſſay at Goldſmiths-hall is 6 *d.*

But if any ſhall be diſ-ſatisfied with the Aſſayings and reports of the Aſſay-Maſter of Goldſmiths-Hall, or ſhall receive any diſcourteous words; or be diſcouraged by any uncivil demeanour in him or his Servants, may have Aſſayes made by His Majeſties ſworn Aſſay-Maſter of his Mint in the *Tower* of *London*, who has been often experienced to have Carefully, Courteouſly, Readily, and Truly performed the ſame; his Fee for a Gold Aſſay is 1 *s.* and for a Silver Aſſay 6 *d.* And he will make his reports in the ſame manner with numeral Letters, as the Aſſay-maſter of Goldſmiths-hall.

Concerning Silver Work made remote from *London*, I ſhall only inſert, that it is to be obſerved; That by the firſt recited Statute, all the Goldſmiths in *England*, were appointed to bring all their Silver Work (*comprehended under the name of Veſſels*) to *London*, to be there Aſſayed and Marked with the *Leopards* Head; but the compelling thereof, under ſuch great penalties as are therein mentioned, was found to be a grievance: Therefore by the Statute of 2 *Hen.* 6. 14. for the better conveniency of the Goldſmiths remote from *London*, Seven places are appointed wherein ſuch Work ſhall be aſſayed and marked, *viz.*

York, *Newcaſtle* upon *Tine*, *Lincoln*, *Norwich*, *Briſtow*, *Salisbury*, and *Coventry*.

And as the Wardens of the Goldſmiths, *London*, are

are to aſſay and mark the Silver Work that is made in and about *London*, and three miles of the ſame, or to procure an Artiſt to do the ſame, (for which they muſt anſwer) ſo, in every one of the aforeſaid Seven ſeveral places, the Chief Magiſtrate or Governor is to aſſay and mark the Silver Work that is made therein, or to procure an Artiſt to do the ſame, (for which they muſt alſo anſwer.)

But what are the particular Marks the reſpective chief Governors of thoſe ſeven places ſet on the Silver works, I can give no certain account thereof.

But this I can aſſert, that by reaſon the Marks of thoſe places are little known, they bear as little Credit; and therefore the Goldſmiths in thoſe and other remote places, do frequently ſend up their Silver Works to receive the *London Touch*.

And in like manner, as every Maſter-worker in *Goldſmiths* Works in *London*, and 3 miles compaſs of the ſame, are to make their Marks known to the Wardens of the *Goldſmiths*, ſo every Maſter-Worker in Gold and Silver in every of the ſaid ſeven places, are to make their Marks known to the Surveyors there (that is) to the Chief Magiſtrate of ſuch Place.

And every Maſter-worker in Goldſmiths Work in all other places throughout *England*, are by the Statute of 37 *Ed.* 3. 7. (afore cited) not only to have their proper Marks, but alſo to make the ſame Marks known to the Wardens of the Goldſmiths, by entring them on the Table in the Goldſmiths Aſſay-Office as afore is ſhewn: The words of the Statute to this purpoſe are theſe (to wit.)

That Goldſmiths, as well in *London* as elſewhere within this Realm, **ſhall make**, &c. And every

every Maſter Goldſmith, **ſhall have a Mark by himſelf, and the ſame Mark ſhall be known by them, which ſhall be Aſſigned by the King to Survey their work and Allay, &c. And that which ſhall be in the Goldſmiths default, they ſhall incur the pain of Forfeiture to the King the value of the Metal which ſhall be found in default.**

(That is to ſay) the Maſter-Goldſmiths in each of the ſeven Touch Towns, ſhall make their Marks known to the chief Magiſtrates there; the King having Aſſigned them power by their Charters to Survey the Gold and Silver Works that are made in thoſe places.

And the King having Aſſigned to the Wardens of the Goldſmiths of the City of *London*, full power and Authority by their Charter, to Survey all Gold and Silver Works in all places whatſoever throughout *England*: Therefore the Workers in the ſeven Touch Towns are to make their Marks known both to the chief Magiſtrate in each of thoſe Towns where they reſide; And alſo to the Wardens of the Goldſmiths aforeſaid: And all other Maſter Goldſmiths throughout *England*, to make their Marks known (as aforeſaid) to the Wardens of the Goldſmiths upon the Penalty of forfeiting the value of the Silver-Work not marked with the Makers mark, or marked with a mark not ſo made known as aforeſaid.

Now ſince (through the Favour of our Kings Predeceſſors and their Parliaments) the Goldſmiths in thoſe ſeven Touch Towns are remitted thoſe extremities of bringing their Veſſels of Silver to *London* to be ſtamped with the *Leopards-*

head,

head, but are allowed each of them a Touch by themſelves to paſs their Works upon. It behooves the chief Magiſtrate and the Goldſmiths in thoſe places to be circumſpect and careful, not only in Aſſaying and Marking the Works, and alſo to ſearch for, ſuppreſs and prevent the Working and Selling any kind of Gold or Silver Work in thoſe places, that is worſe than the Standard: But alſo (as the *Leopards-head* and *Lyon* are generally known to be the Standard Marks for the City of *London*) to uſe ſome means that it may be as generally known what are the reſpective Standard Marks of theſe places; to the end, that nothing may be neglected that may prevent Fraud in this kind; which will ſecure theſe Corporations from having their Charters called in queſtion, and of being disfranchiſed for their neglect herein, and the Goldſmiths and other ſellers of their Works from being called in queſtion, for the tranſgreſſions of making or ſelling unlawful Goldſmiths works.

And for the ſake of you the wearing-buyers of Goldſmiths Works, that reſide in the Country or remote from *London*: I will cite you this obſervation worthy your notice (to wit) that by reaſon the Magiſtrates in the ſeven Touch Towns have been and now are very remiſs in proſecuting their Authority in making ſearch and Aſſaying and marking the Goldſmiths Work, and that the Wardens of the Goldſmiths *London*, do very ſeldom make ſearch in the Country. Great part of the Gold and Silver Works (eſpecially the ſmall-works) made and ſold remote from *London*, are notoriouſly known to be exceedingly Adul-

Adulterated and debaſed, and great part of what is made by the *London* Workers and ſent into the Country to the Traders there, are as notoriouſly known to be as bad as any.

This deceit ſeems to take the more courage, by reaſon alſo of the Country peoples unskilfulneſs, and the difficulty of proceeding in courſe of Law againſt theſe Country Offenders.

Wherefore my advice is, that you buy theſe Works at *London* only, (unleſs they have on them the *London* Touch) either your ſelf or by ſome friend that lives there, or frequently comes thither; and if any deceit be found in ſuch works, there be the Wardens of the Goldſmiths to complain to, who will aſſiſt you; there are the Aſſay-Maſters to make your Aſſays and give evidence of the value of the Metal; there is the Seſſions in *London*, and at *Hixes-hall*, and the Courts at *Weſtminſter*, that will underſtand your agrivance, and give you recompence, and puniſh the Offenders ſuitable to the offence and the ill conſequences thereof; but you will find it very chargeable to Proſecute a Country Offender in the Country, if you be neceſſitated to have the Teſtimony of the Aſſay-Maſter of Goldſmiths-hall, or the Aſſay-Maſter of the Tower of *London*.

But if the Juſtices and Jury in the Country, ſeeing the cheat apparent (by the difference (from Standard on the Touch-ſtone) will inſiſt upon no further evidence, as to the value of the Metal, but find the Offenders guilty (which I conceive may be done very ſuitable to Juſtice) it will much facilitate the Proſecution.

That the Tryal of theſe Offenders in the Coun-

try

try may become the more practicable: I will here direct an infallible method and rule by an *Inſtrument* for the certain knowing (within three pence or leſs in the Ounce) the juſt difference that any ſort of Silver is from Standard, without the Aſſaying it by Fire.

The manner of making the Inſtrument is thus.

Make ſeveral Needles of Silver Wier, (each of them about four Inches long, and as big as a large Pack-needle) of ſeveral worſeneſs in Allay; as one Needle 3 *d.* another 6 *d.* another 9 *d* another 1 *s.* another 1 *s.* 3 *d* another 1 *s.* 6 *d.* in the Ounce worſe then Standard Silver, and as many degrees lower as you pleaſe; make them all with Loops at one end, and put them on a ring of Silver Wier, and upon every Needle (being flatted on one place;) make or mark with Figures the value (by the Ounce) of each Needle, reckoning Standard Silver at 5 *s.* the Ounce Troy: And obſerve, that the Allay in each Needle be half fine Copper, and half fine Braſs, and being all made with blunt ſmooth points: Firſt rub your courſe Silver on a good ſmooth clean Touch-ſtone, as afore is directed; then by it rub one of your Needles that you think is neareſt the Allay of your courſe Silver, and if that be not like it, try another, and ſo ſeveral of the Needles, untill you find the Touch of your Needle, and the Touch of your courſe Metal to be alike; then you have the Price of that Allay Marked on the Needle.

This Inſtrument may be made to contain in weight under two Ounces; and if ingeniouſly made

made and managed, will make a diſcovery very near of the badneſs of any ſort of Adulterated Silver.

The like Inſtrument may be made of ſmall pieces of Gold of ſeveral Allays fixed at the ends of Needles of Silver, for the knowing the worſeneſs of any ſort of Gold.

It is not material to know the juſt value of the Adulterated Silver to the Scrutiny of one Penny in the Ounce to proceed to convict the Offenders, but if it be *apparently worſe than Standard*, the Offenders ought to be found guilty and puniſhed according to the uttermoſt Severity of the Law. See all the before recited Statutes for regulating the Goldſmiths Trade.

Examples of the Allays of Silver to make the aforeſaid Needles (viz.)

dwt.	*grs.*		
9	12	Of Sterling Silver, and	These well melted together will be 3 *d.* in the Ounce worſe than Standard.
0	6	Of Copper, and	
0	6	Of Braſs	

dwt.	*grs.*		
9	0	Of Sterling Silver, and	These well melted together will be 6 *s.* in the Ounce worſe than Standard.
0	12	Of Copper, and	
0	12	Of Braſs.	

dwt.	*grs.*		
8	12	Of Sterling Silver, and	These well melted together will be 9 *d.* in the Ounce worſe than Standard.
0	18	Of Copper, and	
0	18	Of Braſs.	

And

And ſo by ſuch degrees of a penny weight of Allay in the ounce you may compoſe ſeveral Allays for 4. 6. 8. 10 12. 14. or 16. Needles differing three pence in the value of each Needle by the ounce; and the ſureſt way is, when the Needles are all made, to have a diſtinct Aſſay made of each Needle, and that reported goodneſs marked on every of them.

Here followeth the Goldſmiths CHARTER *truly rendred into Engliſh from the Copy thereof taken from the Record now remaining in the Chappel of the* Rolls, *under the Title* Confirmation, *Part* 2. *Number* 4. *Confirmed in the ſecond year of King* James.

THE KING to all to whom, &c. ſendeth Greeting. We have peruſed and ſeen the Letters Patents of Confirmation of our moſt Dear Siſter the Lady *Elizabeth*, late Queen of *England*, made in theſe words; *Elizabeth* by the Grace of *God* of *England*, *France*, and *Ireland* Queen, Defender of the Faith, &c. To all to whom theſe preſent Letters Patents ſhall come, Greeting.

We have peruſed the Letters Patents of Confirmation of the Lady *Mary*, late Queen of *England*, our moſt Dear Siſter, made in theſe words; *Mary* by the Grace of God, of *England*, *France*, and *Ireland*, Queen, Defender of the Faith, and on Earth over the *Engliſh* and *Iriſh* Church the Supreme Head, To all to whom theſe preſents ſhall come, Greeting.

We

We have peruſed the Letters Patents of Confirmation of our dear Brother *Edward* the Sixth, late King of *England*, made in theſe words, *Edward* the Sixth by the Grace of God of *England*, *France*, and *Ireland*, King, Defender of the Faith, and on Earth over the *Engliſh* and *Iriſh* Church Supreme Head, To all to whom theſe preſent Letters ſhall come, Greeting.

We have peruſed the Letters Patents of Confirmation of our moſt dear Father *Henry* the Eighth, late King of *England* of Famous Memory, made in theſe words, *Henry* by the Grace of God King of *England* and *France*, and Lord of *Ireland*, To all to whom theſe preſent Letters ſhall come, Greeting.

We have peruſed the Letters Patents of Confirmation of our moſt dear Father *Henry* the Seventh, late King of *England* of Famous Memory, made in theſe words, *Henry* by the Grace of God King of *England* and *France*, and Lord of *Ireland*, To all to whom theſe preſent Letters ſhall come, Greeting.

Know ye, That we have peruſed the Letters Patents of *Edward* the Fourth, late King of *England*, made in theſe words, *Edward* by the Grace of God King of *England* and *France*, Lord of *Ireland*, To all to whom theſe preſent Letters ſhall come, Greeting.

We have peruſed the Letters Patents of *Edward* the Third, late King of *England*, our Progenitor, made in theſe words,

Edward by the Grace of God King of England, Lord of Ireland, and Duke of Aqui-

tain, To all to whom these present Letters shall come, Greeting.

Our well beloved the Goldsmiths of our City of London, by their Petition exhibited to Us and Our Council in Our Parliament holden at Westminster after the Feast of the Purification of our Lady last past, have shewn,

That whereas no private Merchant nor Stranger heretofore were wont to bring into this Land any Money Coined, but Plate of Silver to exchange for our Coin.

And that it had been also ordained, That all those who were of the Goldsmiths Trade were to sit in their Shops in the High Street of Cheap, and that no Silver in Plate, nor Vessel of Gold or Silver ought to be sold in the City of London, except at Our Exchange, or in Cheapside among the Goldsmiths, and that publickly, to the end the persons of the said Trade might inform themselves whether the Seller came lawfully by such Vessel or not.

But that now of late the said Merchants as well private as Strangers, do bring from Foreign Countries into this Nation Counterfeit Sterling, whereof the pound is not worth above sixteen Sols of the right Sterling; and of this Money none can know the true Value, but by melting it down.

And also that many of the said Trade of Goldsmiths keep Shops in obscure turnings and by-Lanes and Streets, and do buy Vessels o

of Gold and Silver secretly, without enquiring if such Vessel were stoln, or lawfully come by, and immediately melting it down, do make it into Plate, and sell it to Merchants Trading beyond Sea, that it may be exported, and so they make false Work of Gold and Silver, as Bracelets, Lockets, Rings, and other Jewels; in which they set Glass of divers Colours, Counterfeiting right Stones, and put more Allay in the Gold and Silver than they ought, which they sell to such as have no skill in such things.

And that the Cutlers in their Work-houses cover Tin with Silver so subtilly, and with such sleight, that the same cannot be discerned and severed from the Tin; and by that means they sell the Tin so covered for fine Silver, to the great damage and deceit of Us and Our People.

Whereupon the said Goldsmiths have Petitioned Us, That We would be pleased to apply convenient remedy therein.

And we being willing to prevent the said evil, Do by and with the Assent of the Lords Spiritual and Temporal, and the Commons of our Realm for the Common profit of Us and Our People, Will and grant for Us, and Our Heirs,

That henceforth no Merchant, either private or Stranger, shall bring into this Land any sort of Money, but only Plate of fine Silver; nor that any Gold or Silver wrought by Goldsmiths, or any Plate of

Silver be sold to the Merchant to sell again, and be carried out of the Kingdom, but shall be sold at Our said Exchange, or openly among the said Goldsmiths for private use only.

And that none that pretend to be of the same Trade shall keep any Shop but in Cheapside, that it may be seen that their Work be good and right.

And that those of the said Trade may by virtue of these presents elect honest, lawful and sufficient men best skilled in the said Trade, to enquire of the matters aforesaid; and that they so chosen may upon due consideration of the said Craft, reform what defects they shall find therein, and thereupon inflict due punishment upon the Offenders, and that by the help and assistance of the Mayor and Sheriffs, if occasion be,

And that in all Trading Cities and Towns in England where Goldsmiths reside, the same Ordinance be observed as in London; and that one or two of every such City or Town for the rest of that Trade shall come to London to be ascertained of their Touch of Gold, and there to have a Stamp of a Punchion with a Leopards-Head marked upon their Work, as of ancient time it has been ordained. In witness whereof we have caused these Our Letters to be made Patents. Given at Westminster the Thirtieth day of March, in the first year of our Reign.

We have also perused the Letters Patents of

Richard

Richard the Second after the Conqueſt, late King of *England*, made in theſe words, *Richard* by the Grace of God King of *England* and *France*, and Lord of *Ireland*, To all to whom theſe preſents ſhall come, Greeting; Know ye,

That whereas *Edward* our Grandfather, late King of *England*, at the Suit of the Goldſmiths of our City of *London*, ſuggeſting to him, how that many of that Trade by Fire and the ſmoke of Quickſilver had loſt their ſight, and that others of them by their working in that Trade became ſo crazed and infirm, that they were diſabled to ſubſiſt, but by relief from others.

And that divers of the ſaid City compaſſionating the condition of ſuch, were diſpoſed to give and grant divers Tenements and Rents in the ſaid City to the value of Twenty pounds *per ann.* to the Company of the ſaid Craft, towards the maintenance of the ſaid Blind, Weak, and Infirm; and alſo of a Chaplain to celebrate Maſs amongſt them every day for the Souls of all the Faithful departed, according to the Ordinance in that behalf to be made, Did by his Letters Patents for the conſideration of a Fine of Ten Marks, for himſelf and his Heirs, as much as in him lay, grant and give licenſe to the men of the Community aforeſaid, that they may purchaſe Tenements and Rents in the ſame City of the value of Twenty pounds *per ann.* and not above of the Men of that City, for relief and maintenance of ſuch blind and infirm, and of ſuch Chaplain as aforeſaid, to hold to them and their Succeſſors of the ſaid Society for ever, for the purpoſes aforeſaid, The Statute of *Mortmaine*, or any other Statute

or Ordinance to the contrary thereof notwithſtanding, as in and by the ſaid Letters Patents more fully and at large it may appear.

And foraſmuch as the Men of the ſaid Myſtery have humbly Petitioned Us, That foraſmuch as our Grandfathers ſaid Letters Patents are not, nor can be put in execution for want of naming Perſons capable therein, That we would graciouſly provide ſome remedy for them in this behalf. We taking the Premiſſes into Conſideration, of Our eſpecial Grace, and for the conſideration of twenty Marks by them paid unto Us in Our Hanaper,

Have for Us and Our Heirs, granted and given Licenſe to the men of the ſaid Craft, That from henceforth they be a perpetual Community or Society of themſelves.

And that the ſaid Society or Company may for ever yearly Elect out of themſelves **four Wardens** to overſee, rule, and duly govern the ſaid Craft, and Community, and every Member of of the ſame.

And further, We have according to Our Authority in this behalf granted and given Licenſe for Us and Our Heirs to the ſame Wardens and Company, That they may purchaſe and have to them and their Succeſſors, Tenements and Rents, with their Appurtenances, within the ſaid City and Suburbs thereof to the value of Twenty pounds *per ann.* for the maintenance of the blind, weak, and infirm Men of the Company aforeſaid, and of a Chaplain to Celebrate Maſs amongſt the ſaid Infirm every day, for the Souls of all the Faithful departed, for ever, according to ſuch Ordinance, as the ſame Wardens and Company

ſhall

ſhall make in this behalf, (the ſaid Statute, or the Statute in that caſe made in Our laſt Parliament at *Weſtminſter*, notwithſtanding) or notwithſtanding that the ſaid Tenements and Rents be held of Us in Free Burgage, ſo that it be found by Inquiſition thereupon duly had and returned into our *Chancery*, that ſuch purchaſe may be made without any dammage or prejudice to Us and Our Heirs, or any other perſon whatſoeuer. In witneſs whereof We have cauſed theſe our Letters to be made Patents. Witneſs Our Self at *Wincheſter* the Sixth day of *February*, in the Sixteenth Year of our Reign.

And We ratifying and allowing the ſaid Letters Patents, and all and every thing therein contained, do for Us and Our Heirs, according to Our Power in that behalf, Approve and Confirm the ſame, and do by theſe preſents Grant and Confirm the ſame unto our Well-beloved the now Wardens and Company of the ſaid Craft, and their Succeſſors for ever.

And of Our further Grace in this behalf, We for Us and Our Heirs, have granted to the ſame Wardens and Company, That notwithſtanding they or their Predeceſſors have not hitherto upon any occaſion in any ſort uſed the Liberties in the ſaid Letters Patents contained, Yet henceforth it ſhall be lawful for them and their Succeſſors to Uſe and Enjoy the ſaid Liberties and every of them, without any Lett or Impediment by or from Us or Our Heirs, or any of Our Juſtices, Eſcheators, Mayors, Sheriffs, Bayliffs, or other Our Miniſters whereſoever.

And We have further granted, and by theſe

preſents, do for Us and Our Heirs grant to the ſaid now Wardens and Company of the Craft aforeſaid; That they and their Succeſſors be a Corporation or Body Incorporate, conſiſting and called by the Names of Wardens and Company, and be perſons capable in Law to purchaſe and take Lands and Tenements, Rents and other Poſſeſſions whatſoever, for ever in Fee-ſimple of any perſons whomſoever that ſhall be willing to Give, Deviſe, or Aſſign the ſame to them.

To have and to hold the ſame to the ſaid Wardens and Company of the ſaid Craft, and their Succeſſors for ever.

And that they may and ſhall have perpetual Succeſſion, and a Common Seal for the Affairs of their ſaid Myſtery.

And that they may by the name of the Wardens and Company of the Myſtery of Goldſmiths of the City of *London*, Implead and be Impleaded in any Court and place whatſoever, before any Judges whomſoever, in any Actions, Suits, Plaints, Demands and Pleas as well real as perſonal, or mixt of what nature or kind ſoever they be.

And that the ſaid Wardens and Company and their Succeſſors may from time to time as often as they ſhall judge it expedient, make good and reaſonable By-Laws and Ordinances for the better regulating the ſaid Myſtery.

We have alſo granted, and by theſe preſents do grant to the ſaid now Wardens and Company and their Succeſſors, That they may have and hold to them and their Succeſſors for ever, all and ſingular the Lands, Tenements, Rents, Reverſions and Services heretofore given, granted or deviſed to

to the Wardens of the Myſtery aforeſaid, or to the Wardens or Guardians and Company of the Myſtery aforeſaid, by the Name of the Wardens and Company of the ſaid Myſtery, or by the Names of the Company of the ſaid Myſtery, or by what other Name ſoever or heretofore in any manner purchaſed by the Wardens aud Company of the ſaid Myſtery, or by the Company of the ſaid Myſtery, without Impeachment, Diſturbance or Lett by or from Us or Our Heirs, or by or from Our Juſtices, Sheriffs, Eſcheators, or other the Officers and Miniſters of Us and Our Heirs whomſoever.

And we do hereby ratifie and confirm all and every the ſame Lands and Tenements, Rents, Reverſions and Services to the ſaid now Wardens and Company, and their Succeſſors.

And for the Credit of the Men of the ſaid Craft dwelling and reſiding in the ſaid City for the time being, and for the preventing and avoiding the dammage and loſs which do or may daily happen and ariſe as well to Us as to any our Liege People, for want of a due and provident Care in regulating certain of Our Subjects and others Uſing and Exerciſing the ſaid Trade, *without any regard to the Credit* of the ſaid Company; and alſo for the preventing and taking away the Subtleties and *Deceits practiſed in the ſaid Trade.*

We have further granted, and by theſe Preſents do grant to the ſaid now Wardens and Company and their Succeſſors for ever, That the Wardens of the ſaid Myſtery for the time being, ſhall and may for ever have the *ſearch, inſpection, tryal, and regulation* of all ſorts of Gold and Silver, wrought or to be wrought, and to be expoſed to

ſale

ſale within the City of *London* and the Suburbs thereof, and in all Fairs and Markets, and all Cities, Towns, and Burroughs, and all other places whatſoever *throughout our Kingdom of England*, and alſo ſhall and may *have power to puniſh* and correct all defects that ſhall be found in the working of Gold and Silver.

And to that end, if need be, to call to their aſſiſtance the Mayor and Sheriffs of the ſaid City, and the Mayors and Bailiffs, or other Officers whatever in any Fairs, Markets, Cities, Burroughs and Towns, and other places out of the ſaid City where any ſuch Search or Tryal ſhall happen to be made.

And that the Wardens of the ſaid Myſtery for the time being ſhall and may have full Power and Authority for ever by themſelves or any of them, duly to ſearch and try all and ſingular the premiſſes, and alſo all manner of Work touching and concerning the ſaid Craft, found or being in the hands of the Goldſmiths, *or any other whomſoever* ſelling, making or working any Wares or Works pertaining to or concerning the ſaid Myſtery, as well within Our ſaid City of *London* and the Suburbs thereof, as elſewhere out of the ſaid City in all Fairs, Markets, Cities, Burroughs and Towns, and other places whatſoever throughout Our Realm of *England*; And alſo by themſelves or any of them to *break* all ſuch deceitful Works and Wares of Gold and Silver of what ſort ſoever, if any ſuch they ſhall find to be made, wrought and expoſed to ſale in deceipt of Our People.

And alſo according to their diſcretion, and as often

often as they ſhall ſee it neceſſary to puniſh and correct the Makers, Sellers, and Workers of the ſame Works according to their demerits, by the aſſiſtance (if need be) of our Mayors, Sheriffs, Bailiffs, Reeves, and other ſuch like Officers.

We alſo will and grant, and ſtrictly Charge and Command, That all Mayors, Bailiffs, Reeves, and other Officers whatſoever in Fairs, Markets, Cities, Burroughs, Towns and other places where ſuch Search ſhall happen to be made, be ready to Aid and Aſſiſt the ſaid Wardens and every of them making ſuch Search as aforeſaid, in the execution of the premiſſes, and that in all things according to their Duty. In witneſs whereof We have cauſed theſe our Letters to be made Patents. Witneſs Our Self at *Leiceſter* the thirtieth day of *May* in the Second Year of Our Reign.

And now We ratifying and approving the ſaid Letters Patents, and all things therein contained, do for Us and Our Heirs according to our Authority therein, allow the ſame, and by theſe preſents do ratifie, grant and confirm the ſame to our Well-beloved the now Wardens and Company of the Myſtery aforeſaid, and their Succeſſors.

And further, We being certainly informed that divers perſons both Natives and Aliens, exerciſing the ſaid Trade in divers parts of this Kingdom, ſtudying and contriving their own *diſhoneſt Gain*, and purpoſing by various ways to *deceive* and endammage the reſt of our Subjects, do work and expoſe to ſale Gold and Silver *cunningly and deceitfully wrought and debaſed more than the Standard allows*, contrary to the Ordinances in that behalf made.

And

And *Counterfeit-ſtones* (which are of no value, cunningly ſet in ſuch kind of Gold and Silver) do daily ſell for true Jewels at great rates to divers of our Subjects (not underſtanding the ſame) as well in places priviledged, as in Fairs, Markets and other places within our Cities and Burroughs of this our Kingdom of *England*, and neither fear nor doubt to be puniſhed or call'd in queſtion for the ſame.

And the reaſon is, for that due ſearch or any due puniſhment is ſeldom executed upon Offenders in that Myſtery out of the City aforeſaid.

And although the Wardens of that Myſtery in the ſaid City for the time being, have (by virtue and power of the aforeſaid Letters Patents in form aforeſaid granted to them and their Succeſſors) had the ſearch, inſpection, tryal, and regulation of the Gold and Silver ſo wrought and to be wrought, and expoſed to Sale, and power by themſelves or any of them, to ſearch and try (continually from the aforeſaid 30. day of *May*, in the ſaid Second year of the late King *Edward* the Fourth hitherto by virtue of his ſaid Letters Patents to them in that behalf made) all ſuch kind of deceitful and fraudulent Works and Wares made and to be made of the Gold and Silver aforeſaid of any kind whatſoever.

And the faults and deceits in thoſe Works deceitfully and ſubtilly contrived or to be contrived by the Workmen and contrivers thereof, to puniſh and correct, as alſo to execute and perform ſuch other things as they ought to do by virtue of the aforeſaid Letters Patents of the ſaid late King *Edward* the Fourth.

Never-

Nevertheleſs, as We are informed, That notwithſtanding the aforeſaid Wardens of the ſaid Myſtery for the time being have (ever ſince the aforeſaid Grants to them and the Company of the ſaid Myſtery in form aforeſaid made) been at great trouble and charges (as well at their own proper Coſts, as at the Coſts of the ſaid Company) to put in execution their Authority of ſearching, inſpecting, and trying ſuch kind of Gold and Silver (as is before-mentioned) and the defects therein, ſo wrought and put to ſale by the Workmen of the ſaid Trade in divers of the Cities, Burroughs, Fairs, Markets and other places of this Our Kingdom, for the common Uſe of Us and of all Our good Subjects.

Yet they have received very little or no profit thereby, but rather have been ſubject oftentimes not only to pains and perils of their bodies, but alſo to the loſs of their Goods and Chattels by reaſon and occaſion of their ſearching, trying, and putting in execution their Authority aforeſaid, in puniſhing and correcting the defects of Work upon proof thereof made unto them.

By means whereof, and that the ſaid Wardens of late in regard of the great menaces and aſſaults which they have received from thoſe Workmen and Tradeſmen of that Myſtery (that deceitfully ſell ſuch Gold and Silver in the Countrey) and their Accomplices and Adherents, could not execute their ſaid Authority any where within Our Kingdom of *England*, except within Our ſaid City of *London*, and the Suburbs thereof.

So that the ſaid Search, Tryal and Execution of the ſaid Authority ceaſing, very many frauds, deceipts,

ceits, Works unskilfully made of Gold and Silver, and of counterfeiting of Jewels in Works of Gold and Silver and otherwiſe, are daily divers ways increaſed in the Myſtery aforeſaid, by the Workmen of the ſaid Trade in every part of this Our Kingdom, to the great loſs and detriment of Us, and all Our Liege People.

And We being willing (all the deceitful inſufficient, and unlawful Works and Wares of Gold and Silver, Jewels and Stones, Pearl or Coral, or ſuch like, in the Trade aforeſaid unſufficiently and unlawfully made and counterfeited uſed to be put to ſale) to aboliſh and puniſh in all things as it ought to be, of Our certain knowledge and meer motion, have given and granted for Us and Our Heirs (as much as in Us lies) to the aforeſaid Wardens and Company of the Myſtery aforeſaid, and their Succeſſors.

That the ſaid Wardens and their Succeſſors, and every of them for the time being, ſhall have for ever full Power and Authority over all and ſingular the Defects, Offences, Faults and Deceits made and attempted or committed contrary to the Ordinances of the Myſtery aforeſaid in all their ſearches and tryals of Gold and Silver, or of Wares Jewels, Stones, Pearl, Coral, or of any other Jewels or Counterfeit Stones whatſoever wrought or ſet in Gold or Silver, as in Necklaces, Lockets, Rings or Bracelets, or otherwiſe, howſoever wrought or ſet, within this our Kingdom of *England* whereſoever, againſt the Workmen or Owners of any of the ſaid premiſſes expoſing them to ſale.

And all and every perſons of or uſing the ſaid Myſtery

Myſtery whatſoever ſo deceitfully working, having, or expoſing to ſale the premiſſes aforeſaid, (upon due proof made) ſhall be by the ſaid Wardens for the time being committed to the next Goal or Priſon, therein to be puniſhed by Impriſonment of their Bodies according to the nature of their Offences, and out of the ſaid Goals or Priſons to be delivered at the diſcretions of the ſaid Wardens or any of them; Or be puniſhed by Fines to be ſet and impoſed upon ſuch Delinquents, equal to their Offences, Faults and Deceits, as by the ſound Diſcretions of the ſaid Wardens or any of them for the time being, ſhall be eſteemed juſt and reaſonable, and in that behalf convenient.

We alſo grant for Us and Our Heirs to the ſaid Wardens and Company, and their Succeſſors; That whenſoever, whereſoever, and as often as any Wares of Gold and Silver or Pearl, or of any Counterfeit Stones whatſoever, deceitfully, wrought or ſet in the nature of Jewels or Pearl in Gold or Silver, which by Allays thereof are of leſs value and more debas'd in the working of the ſaid Gold and Silver then of right it ought to be wrought, (that is to ſay) not being of the value of Sterling or Standard, (according to the Ordinances and Statutes of Us and our Progenitors or Predeceſſors late Kings and Queen of *England* in this behalf made) that ſhall be found any where as well within any of Our Liberties as without;

Or any Wares of Gold or Silver made within this Kingdom by any Native or Forreign Workmen Tradeſmen of the Craft aforeſaid whereſoever that ſhall be ſold or expoſed to ſale (*not being*

ing tryed, approved and marked as they ought to be) according to the form of the Ordinances and Statutes aforeſaid, that then the ſaid Wardens for the time being, or two of them, ſhall have power and Authority all and every ſuch Wares of Gold and Silver, Counterfeit Stones and Pearls, and other Stones whatſoever (ſo deceitfully or unlawfully wrought and expoſed to ſale whereſoever they ſhall be found) to arreſt, ſeiſe, and to break and ſpoil them, ſo that Our People may not be any more deceived thereby.

And that in all and every the Searches of the ſaid Wardens and their Succeſſors for the time being, of or in the premiſſes from time to time in whatſoever places within Three Miles in and about the aforeſaid City of *London*, where any the ſaid Workmen or Tradeſmen of the ſaid Craft ſhall happen to remain, work, or inhabit, the ſaid Wardens or any of them for the time being ſhall cauſe to be brought all manner of Works and Wares of Gold and Silver aforeſaid, or what Jewels and Precious Stones ſoever (ſet in Gold and Silver) are there wrought or to be wrought, to the Common-Hall of the Wardens and Company of the ſaid Myſtery being in the aforeſaid City of *London* wherein the Common Standard or Aſſize of Gold and Silver (according to the Ordinances in that behalf made) is kept, there to be tryed and aſſayed, And to be reformed if defects ſhall be any manner of ways found therein; and after they ſhall be ſo reformed, to be there then affirmed for good, and ſtamped with their Marks which they uſe for that purpoſe.

And all defective works whatſoever deceitfully

ly wrought as well of or in Gold as Silver, Counterfeit Stones put for Jewels therein and falſly made, (or found to be of a worſe Allay than it ought to be) ſhall there (according to their diſcretions be utterly condemned, without Accompt or any other charge or Anſwer to Us or any of Our Heirs for the premiſſes or any of them to be rendred, made or paid for ever; *In witneſs* whereof we have cauſed theſe Our Letters to be made Patents: *Witneſs* Our Self at *Weſtminſter* the Third day of *February*, in the Twentieth Year of Our Reign.

Now we Ratifying and Approving the ſaid Letters Patents, and all things therein contained, Do for Us and Our Heirs (as much as in Us lyes) allow the ſame, and by theſe preſents do Ratifie, Grant and Confirm the ſame to Our welbeloved the now Wardens and Company of the Myſtery aforeſaid. *In witneſs* whereof we have cauſed theſe Our Letters to be made Patents. *Witneſs* Our ſelf at *Weſtminſter* the ſixteenth day of *March*, in the firſt Year of our Reign.

Now we Ratifying and Approving the ſaid Letters Patents and all things therein contained, Do for Us and Our Heirs, as much as in Us lyes, allow the ſame, and by theſe preſents do Ratifie, Grant and Confirm the ſame to Our welbeloved the now Wardens and Company of the Myſtery aforeſaid; *In Witneſs* whereof we have cauſed theſe Our Letters to be made Patents. *Witneſs* Our Self at *Weſtminſter* the Sixth day of *June*, in the Firſt Year of Our Reign.

Now we Ratifying and Approving the ſaid Letters Patents and all things therein contained,

Do for Us and Our Heirs as much as in Us lyes, allow the ſame, and by theſe preſents do Ratifie, grant and confirm the ſame to our welbeloved the now Wardens and Company of the Myſtery aforeſaid. *In Witneſs* whereof we have cauſed theſe Our Letters to be made Patents. *Witneſs* Our Self at *Weſtminſter* the Fifth day of *December*, in Firſt Year of Our Reign.

Now we Ratifying and Approving the ſaid Letters Patents and all things therein contained, Do for Us and Our Heirs, as much as in Us lyes, allow the ſame, and by theſe preſents do ratifie, grant and confirm the ſame to Our welbeloved the now Wardens and Company of the Myſtery aforeſaid; *In Witneſs* whereof we have cauſed theſe Our Letters to be made Patents. *Witneſs* Our Self at *Weſtminſter* the Third day of *January*, in the Third Year of Our Reign.

Now we Ratifying and Approving the ſaid Letters Patents, and all things therein contained; Do for Us and Our Heirs, as much as in Us lyes, allow the ſame, and by theſe preſents do Ratifie, Grant and Confirm the ſame to Our welbeloved the now Wardens and Company of the Myſtery aforeſaid. *In Witneſs* whereof, *&c. Witneſs* the King at *Weſtminſter* the Thirtieth day of *March*, in the Second Year of the Reign of King *James* over *England*, &c.

THat all Goldſmiths in London, *and other Traders in Goldſmiths Wares, may know how to demean themſelves in the Buying and ſelling thoſe Wares. They are to obſerve.*

1. That in *London*, every day in the week is a Market day, except *Sunday*, and a ſale (*bona fide*) in

in a Shop therein any day of the week is *good*

2. The ſale in ſuch Shop muſt be of things proper to the Trade of the Shop-keeper, and ſo a ſale of Plate in a Scriveners Shop is not good, and ſo of every other Trade.

3. If a ſale of Plate be in a Goldſmiths Shop (where it is properly to be ſold) it muſt be *publickly and open*; for if a ſale be there of Plate *in an inner Shop, or behind a Curtain, or a Cupboard, or ſuch like*, or all or any the windows be ſhut, or any thing elſe *hides it ſo*, that he that paſſes by cannot *readily ſee* what is done there, *it will not alter the property:* All this was reſolved on *H.* 38. *Eliz.* Co. 5. 83. *Moor's* Rep. p. 36. *Eveſq; de Worceſter's* Caſe. *Moor's* Rep. p. 624.

4. If a ſale in a Market *overt* be *covinous*, or the party that buys the Goods, *knows they were ſtolen*, this ſale alters no property, 33 *H.* 6. 5. Co. 3. 78. as the buying any ſtolen Goods at any great under value, as Standard Plate under 5 *s.* the ounce *Troy*, or other ſtoln goods for 5 *s.* which are worth 20 *s.* or to buy ſtoln Plate or other Goods at the full value, having notice, or warning, or cauſe of ſuſpicion, (at or before the ſale) that ſuch Goods were ſtolen, ſuch ſale alters not the property, but inſtead thereof makes the Buyer acceſſary to the Fellony. See Mr. *Cromp*, *fol.* 43.

Note, In that part of the Goldſmiths Charter confirmed by Parliament it is ordained, **That none that pretend to be of the Goldſmiths Trade ſhall keep any Shop but in** Cheapſide, which ſeems to confine the *Market Overt* (for that Trade) only *to that place.*

But the preamble to that part of the Charter

being conſidered, and the extent of the City of *London*, and the ſmall number of Goldſmiths at that time, it may be collected, that the deſign by the King and Parliament was, that all the Shop-keeping Goldſmiths in *London* (which are ſuppoſed not then to exceed the number of twenty) ſhould be confined to the *High-ſtreet* (otherwiſe called *Cheapſide*, that being then *the only High-ſtreet in London*, and would then conveniently contain ſo ſmall a number of *Goldſmiths*) that their living ſo publickly together might be a means to prevent the *deceits in their Trade, which their living in obſcure Turnings, and By-Lanes and Streets would increaſe and promote*; and that if the Goldſmiths ſhould (as they are) become very numerous, and the City of *London* ſhould be extended larger, that then all the Shop-keeping Goldſmiths ſhould keep Shop in, or be confin'd only to the *High-Streets of the City and Suburbs thereof, and every Goldſmiths Shop therein, to be (in the legal uſage thereof) a Market overt*: This ſeems not to be inconſiſtent, (but very agreeable) to the meaning of that part of the Charter: And now it is (as then it was) of great concern to the ſafety of the people, that no Goldſmiths be ſuffered to keep Shop in *obſcure Turnings or by-Lanes or Streets*; neither in the City of *London*, nor the Suburbs thereof: for they are not only the grand Receivers of *Stolen Plate*, but the venders of *falſe, adulterate, and unlawful Goldſmiths works*. And aſſuredly the ſale of ſtolen Plate in ſuch Shops, be it in the cleareſt day; and not in the leaſt obſcured from the ſight of Paſſengers, alters not the *property*, but may make the Buyer acceſſary to the felonious ſtealing thereof.

The

The Goldsmiths ORDER lately made and set forth for Prevention and Redress of the great Abuses committed in the several Wares aforementioned.

Goldsmiths-Hall the 23. *day of* February 1675.

WHEREAS Complaint hath been made to the Wardens of the Company of Goldsmiths London, That divers small Works, as Buckles for Belts, Silver Hilts, and the pieces thereto belonging with divers other small Wares both of Gold and Silver, are frequently wrought and put to sale by divers Goldsmiths and others, worse than Standard, to the abuse of his Majesties good Subjects, and great discredit of that Manufacture; and that there are also divers pieces of Silver Plate sold, not being Assayed at Goldsmiths Hall, and so not marked with the Leopards Head Crowned, as by Law the same ought to be: And whereas the Wardens of the said Company to prevent the said frauds, have formerly required all persons to forbear putting to sale any adulterate Wares either of Gold or Silver, but that they cause the same forthwith to be defaced; And that as well Plate-workers as Small-workers should cause their respective Marks to be brought to Goldsmiths-Hall, and there strike the same in a Table kept in the Assay-Of-

fice; And likewiſe enter their Names and places of Habitations in a Book there kept for that purpoſe, whereby the perſons and their Marks might be known unto the Wardens of the ſaid Company, which having not hitherto been duly obſerved, Theſe are therefore to give notice to, and to require again all thoſe who exerciſe the ſaid Art or Myſtery of Goldſmiths in or about the Cities of London and Weſtminſter, and the Suburbs of the ſame, That they forthwith repair to Goldſmiths-Hall, and there ſtrike their Marks in a Table appointed for that purpoſe, and likewiſe enter their Names, with the places of their reſpective Dwellings, in a Book remaining in the Aſſay-Office there: And that as well the Worker as Shop-keeper, and all others working and Trading in Gold or Silver Wares, of what kind or quality ſoever they be, forbear putting to ſale any of the ſaid Works, not being agreeable to Standard, that is to ſay, Gold not leſs in fineneſs than two and twenty Carracts, And Silver not leſs in fineneſs than eleven ounces two penny weight: And that no perſon or perſons do from henceforth put to ſale any of the ſaid Wares either ſmall or great, before the Workmans Mark be ſtruck thereon, and the ſame Aſſayed at Goldſmiths-Hall, and there approved for Standard, by ſtriking thereon the Lyon and Leopards-Head Crowned, or one of them, if the ſaid Works

will

will conveniently bear the ſame: And hereof all perſons concerned are deſired to take notice, and demean themſelves accordingly: otherwiſe the Wardens will make it their care to procure them to be proceeded againſt according to Law.

Goldſmiths-Hall the 7th. day of January, 1677.

WHEREAS Complaint hath been made to the Wardens of the Company of Goldſmiths London, That divers ſmall Works, as Silver Buckles for Belts, Silver Hilts, and the pieces thereto belonging, with divers other ſmall Wares both of Gold and Silver are frequently wrought and put to ſale by divers Goldſmiths and others, worſe than Standard, to the great abuſe of his Majeſties good Subjects, and Diſcredit of that Manufacture, and reproach in forein parts to the Engliſh Goldſmiths: And that there are alſo divers pieces of Silver Plate ſold, not being Aſſayed at Goldſmiths-Hall, and ſo not marked with the Leopards-Head Crowned, or Lyon, as by Law the ſame ought to be. And whereas the Wardens of the ſaid Company, to prevent the ſaid Frauds, have formerly required all perſons to forbear putting to Sale any adulterate Wares either of Gold or Silver, but that they cauſe the ſame forthwith to be defaced. And that as well Plate-Workers as Small-workers ſhould cauſe their reſpe-

ative Marks to be brought to Goldsmiths-Hall, and there strike the same in a Table kept in the Assay-Office, and likewise enter their Names and Places of Habitations in a Book there kept for that purpose, whereby the persons and their Marks might be known unto the Wardens of the said Company; which having not of late been duly observed, and many of the Offenders seem to be incorrigible. These are therefore to give notice to, and to require again, all those who Exercise the said Art or Mystery of Goldsmiths in or about the Cities of London and Westminster, and the Suburbs of the same, and in and about the Burrough of Southwark, that they forthwith repair to Goldsmiths-Hall, and there strike their Marks (first approved of by the Wardens in Court) in a Table appointed for that purpose; and likewise enter their Names, with the places of their respective Dwellings in a Book remaining in the Assay-Office there: And that as well the Worker as Shop-keeper, and all Cutlers and Girdlers, and all others, Trading in Gold or Silver Wares, of what kind or quality soever they be, forbear putting to sale any of the said Works, not being agreeable to Standard: that is to say, Gold not less in fineness than two and twenty Carracts, and Silver not less in fineness than eleven ounces two penny weight. And that no person or persons do from hence forth put to Sale any of the said Wares

either

either ſmall or great, before the Workmans Mark be ſtruck clear and viſible thereon, and upon every part thereof, that is wrought aſunder, and afterwards ſodered or made faſt thereto, in finiſhing the ſame, unleſs it be ſuch ſort of Work adjudged by the Wardens, that it will not conveniently bear the Workers Mark. And that (all manner of Silver Veſſels, and all manner of Silver Hilts for Swords, and all manner of Silver Buckles for Belts and Girdles, and other harneſs of Silver be Aſſayed at Goldſmiths-Hall, and there approved for Standard; by ſtriking thereon the Lion and Leopards Head Crowned, or one of them, before they be expoſed to Sale. And hereof all Perſons concerned are required to take notice, and demean themſelves accordingly: otherwiſe the Wardens reſolve to make it their care to procure them to be proceeded againſt according to Law. And will reward every perſon for their pains in diſcovering before them (in Court) the matter of Fact of any Tranſgreſſor (in the premiſſes) upon the Conviction of the Offender.

Touching the ſeveral Weights now in uſe amongſt us, for the buying and ſelling of Gold and Silver, and precious Stones, the Reader may obſerve,

That no other weights are (by our Laws) to be uſed in weighing Gold and Silver, but thoſe called by the name of *Troy* Weights, of which

24 Grains

24 Grains make a penny weight, or the weight of an old Sterling penny, (which now goes for three pence.)

20 penny weight makes one ounce.

12 ounces make a pound.

The compounding theſe weights (being uſed in Aſſaying of Gold, and computing the Standard of Gold) are called by the name *Carracts*, of which a large account is given before.

There be other ſorts of Carracts compounded of *Troy* grains, thus;

4 Grains make a Carract.

6 of ſuch Carracts make a penny weight.

120 of ſuch Carracts makes an ounce *Troy*; Theſe are only uſed to weigh Diamonds and Pearls.

That all perſons may know the difference of *Troy* weights from others, they are to obſerve that theſe weights are made in the ſhapes, and of the Metal, and marked as hereafter is mentioned, (*viz.*)

The Grain weights are made of pieces of thin Braſs, commonly called Laten-Braſs, and are cut near four ſquare, and proportioned from half a grain to ſix grains; and ſo many grains that each piece contains, it is marked with the like number of round Marks thus (o) And alſo on every piece is (or ſhould be) ſet the letter G with a Coronet at the head of it, thus (G)

The next weights above them, are the penny weights, which are made of thick ſquare pieces of Braſs, proportioned from a half-penny weight to a five penny weight, and not uſually higher:

And

And ſo many penny weight that each piece contains is made or marked thereon, ſo many round marks thus (o) as aboveſaid; and alſo is or ſhould be ſet the *Lion* on every piece.

The next above them is the ounce weights, they are alſo of Braſs, and made round in neſts, (that is to ſay) to fall or ſtand one within another, and are proportioned from a drachm to 32 ounces, and ſometimes to 64 ounces, (*viz.*) the leaſt is a * Drachm; the next half a quarter of an ounce, the next a quarter of an ounce, the next half an ounce, the next an ounce, the next two ounces, and ſo every one double the weight of the next leſſer, and every one from an ounce upwards, are marked with numeral Letters of ſuch number, as the pieces contains ounces, and alſo every weight marked with two Letters, made thus (R) for *Troy*, and are or ſhould be marked with the *Lion* and *Leopards-Head* Crowned.

* A Drachm *Troy* is one penny weight and ſix grains; Sixteen of ſuch drachms make an ounce *Troy*: Half a quarter of an ounce is two penny weight and 12 grains.

The next weights above them are faſhioned like a Bell, and are called *Bell-weights*, and are proportioned from one pound or twelve ounces *Troy*, to thirty two pounds, and ſometimes higher, every one being double the weight of the next leſſer, as before of the ounce weights, and are or ſhould be marked with the ſame Marks.

The Standard of theſe weights is kept in the *Tower* of *London*, and alſo in the *Goldſmiths-Hall*, and the Officers there and none other ſhould have the Sizing or Gauging of them; but that being accounted

accounted too chargeable, the ſeveral Weight-makers in and about *London* do uſually Size and Gauge theſe weights themſelves, according to the aforeſaid Standard, and do ſet marks on them ſomething reſembling the right; but by what authority they ſo do, I leave to the conſideration of thoſe immediately concerned therein.

There are other ſorts of Weights, by ſome uſed amongſt us, called by the name of *Venice*-Weights, and are made in neſts of the ſame faſhion, as the neſts of *Troy* ounces are, and every one double the weight of the next leſſer, but very much differing from the *Troy* Weights thus, (*viz.*) as the *Troy* ounce contains twenty penny weights, ſo the *Venice* ounce contains but thirteen penny weight and a half. But there being no Law for theſe *Venice*-Weights amongſt us, only the Sellers of Gold and Silver Lace (but without any warrant or authority ſo to do) do too often for their private lucre, uſe the ſame. But what I have before mentioned of them, is ſufficient to prevent their being uſed inſtead of the *Troy* weights.

There are alſo other ſorts of weights (by our Law) in uſe amongſt us, called by the name of *Averdupois* (the leſſer ſort of them) are made of Braſs, and ſhaped round and flat, and every one double the weight of the next leſſer, and are or ought to be Sized and Marked at *Guild-Hall London*, (where the Standard of thoſe Weights is kept, with ſeveral Marks, (*viz.*) the City Arms in a Shield, the Dagger, the Letter A for *Averdupois*, a Flower-de-luce, and the Effigies of a Veſſel or Ewer. Theſe Weights differ from the *Troy* weights thus, (*viz.*) that as the *Troy* ounce contains

contains twenty penny weight, ſo the ounce *Averdupois* contains but 18 penny weight; and as the pound *Troy* contains twelve ounces, ſo the pound *Averdupois* contains ſixteen ounces: But theſe not being for the weighing Gold and Silver, what I have mentioned of them, is ſufficient to diſtinguiſh them from the *Troy* Weights.

THus I have given you a plain account of what Gold and Silver is produced, and their natures, and that the nobleneſs and excellency thereof is the cauſe of their being in ſo great eſteem.

I have alſo ſhewed what induſtry hath been uſed heretofore to make thoſe Metals the more uſeful and ſerviceable in works by Allaying them to a certain Standard, the beſt (for the intended purpoſes) in the world, and what that Standard is, I have plainly ſet down.

I have given you a true and faithful account of the Laws and rules in force, made for keeping all Gold and Silver Works up to that Standard, and for regulating the Goldſmiths Trade, and what perſons may lawfully follow that Trade, and ſome notes for the better underſtanding thoſe Laws and Rules.

I have given intimation of the tranſgreſſion of thoſe Laws by the making and ſelling ſeveral works of Gold and Silver, of a worſe and courſer Allay than that Standard, and the proper means and ways how every perſon may eaſily diſcover the ſame, and the greatneſs or littleneſs of the deceit, and the right method of proceeding for recompence.

If

If for all this any Workers or Sellers of Gold or Silver Works (in any place within this Realm) ſhall reſolutely perſiſt in breaking thoſe Laws by Working, Selling, or expoſing to Sale ſuch *adulterated and fraudulent Works*, to the great diſcredit of thoſe Metals, and deceit of the people, and diſhonour of this Kingdom and Government, and (in particular) the Corporation of Goldſmiths: Yet I hope all wearing buyers of thoſe works will conſider, that to buy a thing for Gold or Silver, which is but a counterfeit thereof, without diſtruſt or ſcruple, argues *a weak credulity*: And to wear Braſs or Copper, ſuppoſing it will be eſteemed Gold or Silver, may (inſtead of ſuch eſteem) merit a ſuſpicion that 'tis ſo worn becauſe of *diſability to buy better*, or of ambition to have a counterfeit Ornament appear a reality.

Now will any wearing Buyer be ſo inconſiderate as to fancy or ſay this concerns not him, or it only concerns the Corporation of Goldſmiths; when indeed the evil practices of the Workers and Sellers of Goldſmiths Works will be no ways ſo curbed and prevented, as by the *ingenuity of the wearing Buyers and their underſtanding what they ought to have*, but if they ſhall only underſtand what is their property, and not purſue it; I ſay (as before) ſuch perſons are not only (in this caſe) worthy to be cheated, but *are encouragers of ſuch evil doers*, and have no excuſe left them, when they are hereby ſo plainly directed to diſcover the cheat, and ſo eaſily to get recompence, either (immediately) of the Seller, or by application to the Wardens of the Goldſmiths, or to the chief Magiſtrates in the ſeven Touch-Towns, who are bound

bound by Law (as aforeſaid) to ſtand by the party wronged, and endeavour what in them lies to purſue all courſes of Law to obtain their recompence.

And I do aſſert, that ſeveral perſons to my knowledge have made complaint to the Wardens in the method as afore is directed, and have had a quick and ſpeedy diſpatch to their full ſatisfaction; and others who having diſcovered their being cheated, have applied themſelves to the perſon of whom the falſe work was bought, who have either returned the money which it coſt, or good work of the Standard goodneſs inſtead thereof, rather than a farther clamour ſhould be made to his diſgrace, or be called in queſtion before Authority for the offence.

But to ſuggeſt that this deceit is only, or for the moſt part in the ſmall Silver Works, and therefore inconſiderable and not worth the trouble of the Magiſtrate, nor others to ſuppreſs it, when 'tis well known.

That the *ſmall Works* are near as much conſiderable as the great Works; for counting the number of *Workers and Sellers*, and the multitude of *Wearers*, and the extraordinary wearing, and breaking, and alterations of Faſhions of the *ſmall Gold and Silver Works*, above the great Plate, it will appear to be uſed near equal in quantity, if not more.

For, it may be obſerved, that in and about *London*, for one that works in great Plate, there is ſix *ſmall Workers*, and more; and that the great Workers do not always make their veſſels and work of the largeſt ſort, but do make abundance

dance inconſiderable in the weight; as of 5, 4, 3, or 2 ounces each piece, and goes under the name of *ſmall Works*; and that the *Small Workers* do frequently make heavy Works, as Hilts, and Buckles, and ſuch like, weighing 3, 4, 5, 6, 8, 10, or 12. ounces the piece or ſett, and yet is accounted *Small Work*; and that when Trade has been indifferent quick, ſeveral of theſe *Small Workers* have each of them to my knowledge wrought into Buckles, and Hilts, and ſuch like 200 ounces and more of Silver in every week of a very baſe Allay.

So that if half the *Small Works* be adulterated or made of Counterfeit *Sterling* or Standard, the *wearers of ſuch Works* cannot be leſs cheated (by what may reaſonably be collected conſidering what is made and ſold in *London*, and all parts of the Kingdom) than two hundred pounds in every week, reckoning but *one ſhilling cheat* in every ounce of Silver, and ſo proportionably in Gold; but if any *conſiderable number* of the *ſmall Workers* ſhould each of them cheat 5, or 6, or 10, or 15 *l.* or more in every week in the Buckles and Hilts, and the pieces thereto belonging (which is well known ſome have done) and ſo of other ſmall Works, it would amount to a greater ſum.

And to fancy that this deceit being ſo divided, ſevered, and diſperſt, that no one perſon can complain of any conſiderable loſs thereby, therefore no need of puniſhing or ſuppreſſing thereof.

By the ſame reaſon if Thieves and Robbers do craftily take or ſteal but by little and little, to the value of 6 *d.* of one, 1 *s.* of another, 2 *s.* of another, 5 *s.* of another, 10 or 15 *s.* of another, &c.

no

no need is there of punishing or suppressing them: The inference thereof I leave to all, and do hope that the *wearing buyers* of Goldsmiths works, (to wit, *Sword-hilts, and the pieces thereto belonging, Buckles for Belts and Girdles, and Shoe-Buckles, and Garter-Buckles, Watch-Cases, and the Pins and Studs that are put into Watch-Cases, Rings of all sorts, Lockets, and other Jewels; Money-Boxes, Tobacco-Boxes, Coral-Sockets, and the Brass wier put in those Sockets, and Copper Clappers in the Bells; all sorts of Buttons and Taggs for Garments, Chirurgeons Instruments, Clasps, Chains, Dram Cups, and all other sorts of small work, and of the great Plate that is made in the remote places from* London) will not suffer themselves to be thus wheedlingly cheated by those Works, of 11 or 12000 *l.* or more, in every year: But that be the cheat small or great, or the offender rich or poor, the agrieved persons will vigorously prosecute, and the Magistrates severely punish every offender in the Goldsmiths Trade.

And rather then the poverty of any offender, should deterr the prosecution and severest punishment, I do averr that (they being the first and principal adventurers to make these fraudulent Works) it were better they were maintained by the Alms of the Parish, than thus to assist to cheat the people, *and discredit the Goldsmiths Wares*, and thereby spoil their Trade. And the more able Working-Goldsmiths, that would work honestly, are forced to follow such their ill example, or procure them to be punished, or lose their Trades. *And certain it is, if the Fines on these offenders be small, it will be worth their while*

to pay it, and go on again in making and vending ſuch cheating Works: for true it is, that one weeks cheat, or leſs, may make double recompence for an ordinary Fine, and it will be a great chance if theſe puniſh'd offenders, that live privately, be catcht once in half, or a whole year after.

A more particular account of theſe deceits take thus: The Shop keeper buys in his Shop all ſorts of *old courſe Gold and Silver works*, and you may be ſure *not for above* the juſt intrinſick value that 'tis worth; which courſe Gold or Silver, (inſtead of cauſing the *Refiner to make it of the fineneſs of Standard*) he either works up again himſelf, or puts it out to his *Work-men* abroad (who live generally in private) to be wrought; or elſe the mean Work-men, having made up courſe Gold or Silver works of their own, about with it they go to the *Shop-keepers*; and they, whether Goldſmiths, or Traders in their Works, (if evilly diſpoſed) do receive of theſe New works more or leſs, as they have occaſion, and put in Gage weight for weight their Old courſe Gold or Silver againſt the New, and only pay the Work-man for the Faſhion. And the Work-men dare not refuſe this way of dealing, for the number of them being great, and are generally very poor, that if one do refuſe, another (*eſpecially an Alien*) will imbrace it, and the refuſer loſeth his Trade, and ſo is undone: And the complying worker has this further advantage, he will make it *courſer*, and ſo every time ('tis new wrought) *courſer and courſer*, and as bad as poſſibly he can work it, and make it ſhew like Gold or Silver. And if the evil diſpoſed Goldſmiths deliver Gold or Silver

that

that is *Standard*, to be wrought into *Works*, or do work it themſelves, they will certainly mix, or cauſe the Work-man to mix in it, ſuch quantities of Copper as will make it of the cuſtomary courſneſs. *Herein lyes the deluſion of that pretence, (to wit) that he takes (or delivers to his Work-men) no Gold or Silver but Standard to be wrought into Works.*

This counterfeit Gold or Silver work, is always ſold to the *wearing buyer* (if Silver) at 5 *s.* the ounce, and (if Gold) at 4 *l.* the ounce, although moſt times it be not worth above half the price, beſides the Faſhion. I charge not all Shop-keeping Goldſmiths, and Traders in their Works, with theſe unlawful doings; but aſſuredly 'tis an overſpread diſeaſe, for the evil-diſpoſed Goldſmiths and Traders in their Works, will (as the Laws to prevent theſe deceits now are) in deſpite of Fate practiſe it at all opportunities, and the honeſt Goldſmiths and Traders in their Works, muſt (though unwillingly) do ſo too, *or loſe their Trades.* And many honeſt Workers would gladly contribute largely both pains and money to puniſh offenders, and obtain a thorow Reformation; but are ſo *over-awed* by the evil-diſpoſed Shop-keepers with whom they deal, that they dare not appear or give the leaſt countenance to it, which if the Shop-keeper perceives they do, it will aſſuredly coſt them the loſs of their Cuſtom, unleſs ſome extraordinary thing prevent.

And that the honeſt Goldſmiths and Traders in their Works, are ſo forc'd to practice theſe deceits, it may plainly appear by theſe Examples:

Suppoſe a Set of Buckles weighing two ounces be made of Sterling, which Silver the honeſt Goldſmith ſells for 10 *s.* 6 *d.* you may be ſure he gains nothing by that; but if he take 3 *s.* a reaſonable price for the Faſhion, which is all his gains, O how 'tis ſcrupled, as a great rate, and too dear! For the evil-diſpoſed Goldſmith will make a Set of the ſame likeneſs and weight, worth but 3 *s.* 6 *d.* the ounce, and take 10 *s.* for the Silver, and but 2 *s.* for the Faſhion, and this by the *wearing buyer* is counted a great deal the better bargain, *when indeed 'tis the dearer by* 2 *s. than the good Silver Buckles.*

Or ſuppoſe a Gold Ring weighing 6 *dwt.* be made of Standard, which Gold the honeſt Goldſmith ſells for 1 *l.* 4 *s.* you may be ſure he gains nothing by that; but if he take 3 *s.* a reaſonable price for the Faſhion, which is all his gains, 'tis ſcrupled, and accounted a great rate, and too dear: For the evil-diſpoſed Goldſmith will make a Gold Ring of the ſame likeneſs and weight, and the Gold worth but 18 *s.* and take 1 *l.* 4 *s.* for it, and but 2 *s.* for the Faſhion, and this by the *wearing buyer* is accounted a great deal the better bargain, *when indeed 'tis dearer by* 5 s. *than the other.* But if the Gold or Silver be courſer, as often it is, the bargain will be ſo much the dearer, and the cheat the greater. And ſo it is of all other Goldſmiths works which are adulterated, *and this deceitful pretended cheapneſs draws away the honeſt Goldſmiths Cuſtom, and exceedingly cheats the wearing buyer.*

Another *invention* is uſed among the evil-diſpoſed Goldſmiths, and Traders in their Works,

to

to defraud the *wearing buyer*: They will always (eſpecially now there is ſo great noiſe about theſe deceits) keep of every ſort of Gold and Silver works, *both of the Standard goodneſs and of a courſer Allay, ready for ſale*; and when the Cuſtomer comes to buy, they will carefully obſerve whether he has *skill* in the Silver or Gold, and whether he is *ſcrupulous* of its goodneſs, by asking for the *marks*, and (the common, though frivolous queſtion) whether they will warrant it to be Standard; then be ſure he muſt be very *impudent* that will put any Wares but good, into ſuch ſcrupulous perſons hands: But if they perceive the Cuſtomer *careleſs*, or *unskilful*, then he is the perſon that ſhall aſſuredly have the Adulterated Goldſmiths works.

This artifice occaſions the difficulty *for perſons imployed on purpoſe (by the Company, or others) to buy the deceitful Works*, thereby to have the offenders proſecuted according to Law: For ſuch perſon imployed muſt be very ingenuous in managing his words and carriage, and to make diſtinction, elſe he may buy the good inſtead of the bad, by which may accrue conſiderable loſs by the Faſhion, they having not occaſion for the ſame.

I know many will be much offended at theſe diſcoveries, and reflect on me that old ſaying, That 'tis a ſorry Bird that defiles his own Neſt; but let ſuch conſider in theſe caſes, that he is not the defiler, that diſcovers and endeavours to cleanſe the filthy corrupt doings in this Trade, *But they that are the Actors and Abetters of adulterating the Goldſmiths Works, are defilers of their*

Neſts, a diſcredit to their Works, and diſhonour to the whole Trade and Nation.

I am the more plain in this caſe, becauſe I find this diſtemper is *contumacious*, and the offenders *incorrigible*, and do impudently defie the Laws, and dare the Magiſtrates to their faces; and do at every time they cheat in theſe Works, and eſcape, conclude that no agrieved perſons will trouble themſelves to call them in queſtion for the ſame; and the threatning againſt them by others, to be but as an old Womans Fable.

Wherefore theſe offenders ought to be expoſed to exemplary puniſhment, not only to pay conſiderable Fines, but with the *Pillory*, leſs then which will not ſtop the cariere of this ſo *grand deceit*. And ſince the counterfeiting a *Paſs*, was puniſhed with the Pillory, and a Fine, *lib. delib. Goal. Newgate, 5 Decemb. 8 Car.* 1. and the like puniſhment impoſed for counterfeiting a *Butchers Licenſe, 3 March. 7 Car. eod. lib.* it may be ſuppoſed that the counterfeiting the *Sterling or Standard in Works of Gold or Silver*, and ſelling, exchanging or bartering the ſame, (*being a greater cheat*) will not be leſs ſeverely dealt with.

And to the end theſe deceitful practices may be effectually ſuppreſs'd and prevented, I will humbly propoſe to our wiſe Law-makers, whether a further Authority (with reducing all Goldſmiths into that Corporation as aforeſaid) may be given to the Wardens of the Goldſmiths, and to all other Surveyors as the King is Authorized by the afore-recited Stat. of 37 *Ed.* 3. 7. to appoint, and alſo to the parties grieved, to this effect following; (*viz.*)

That

THat it ſhall and may be lawful to and for the Wardens of the Company of Goldſmiths of the City of London, and either of them, and their Succeſſors, and ſuch other skilful perſon and perſons as the Kings Majeſty, his Heirs and Succeſſors, ſhall from time to time think fit to appoint, and authorize under the Great Seal of England, at all times hereafter, in the day time, for the better redreſs of the evils aforeſaid, to enter into all and every Shop and Shops, Work-houſes and Ware-houſes of all and every perſon and perſons trading in, and ſelling any Plate Veſſels, Harneſs, or any other work or ware of Gold or Silver, and ſurvey, view, and try the ſaid wares; and in caſe they ſhall find any of the ſaid works or wares, whether they be ſingle or mixt, or joyned with the works of other Trades, to be deficient, either for want of ſuch Stamp and Marks as by the Statutes made for regulating Goldſmiths works, are required, or be not of good and warrantable Allay, or any Braſs, Copper, or Laten works, gilt or ſilvered, contrary to the Stat. 5 Hen. 4. 13. That then it ſhall and may be lawful to and for the Wardens and their Succeſſors, and ſuch other Surveyors, perſon and perſons ſo to be authorized under the Great Seal as aforeſaid, reſpectively to ſeize and ſecure the ſame, and the ſame ſeizure ſhall return and preſent at the next Seſſions of the Peace for ſuch County where ſuch ſeizure is made; and in caſe upon ſuch Preſentment, the owner of ſuch Works ſhall not be ſatisfied with ſuch ſeizure, but will juſtifie the ſame to be lawful Works, that then the ſaid owner ſhall forthwith plead Not guilty unto the ſaid Preſentment, and the Court thereupon, at the ſame Seſſions, ſhall cauſe a Jury to

be returned, to try the ſaid Iſſue, upon which tryal the ſaid parties ſhall be at liberty to give the ſpecial matter in evidence: And in caſe the Verdict ſhall be given for the Proſecutor, or the ſaid Wares ſhall be condemned on ſuch Preſentment, by Nihil dicit, *that then in either of the ſaid caſes, the ſaid Wares ſhall be appraiſed in the ſaid Court, upon the Oaths of two perſons, and the one moiety of ſuch appraiſement ſhall forthwith, before delivery of the ſaid Wares, be paid unto the Sheriff of the ſaid County, to be anſwered on his accounts in the Exchequer to his Majeſty, wherewith the Clerk of the Peace is hereby required to charge him in his Eſtreats in the Exchequer; and the other moiety ſhall go and be to the perſon and perſons making ſuch ſeizure. And the ſaid Juſtices of the Seſſions to be hereby authorized and required, in caſe of ſuch tryal as aforeſaid, if the Verdict ſhall be given for the Proſecutor, to tax and aſſeſs him his full coſt by him expended in ſuch proſecution, and alſo twenty ſhillings for his attendance, in caſe the moiety of the Works ſeized be not of that value. And in caſe the Verdict ſhall be given againſt the Proſecutor, that then the ſaid Court ſhall tax and aſſeſs the Defendant his full coſt of Suit, and ſhall from time to time grant Execution for levying all the ſame money ſo taxed as aforeſaid; and the ſaid condemnation or tryal there to be had, ſhall be concluſive to all parties, without further Appeal to any other Court by* Certiorari, *Writ of Error, or any otherwiſe whatſoever.*

And in caſe any Goldſmith, or any other perſon or perſons, ſellers of any works or wares of Gold or Silver, or gilt or ſilvered Braſs, Copper, or Laten, ſhall refuſe to permit the ſaid Wardens, or other the perſon

or perſons, or Surveyors ſo to be authorized as aforeſaid reſpectively, to ſurvey, ſearch and try, in the day time, all ſuch wares and works of Gold and Silver, or gilt or ſilvered works aforeſaid, as ſhall be within their reſpective Shops or Ware-houſes; or ſhall refuſe, when required, to open all their Compters, Cheſts, Glaſſes, Cupboards, Boxes, Drawers, Work-houſes, Ware-houſes, and all and every other place and places where the ſaid Wares are uſually made or kept, that then every perſon ſo offending, to forfeit for every ſuch refuſal the ſum of five pounds, the one moiety whereof to be to our Soveraign Lord the King, his Heirs and Succeſſors, and the other moiety to ſuch perſon and perſons to whom ſuch refuſal is made, together with full coſt, in caſe the ſaid forfeitures be conteſted, and recovery be had by Suit at Law.

And that all Juſtices of the Peace, Mayors, Bailiffs, Conſtables, and all other Officers, where any ſearch ſhall be made by virtue of this Act, ſhall be aiding and aſſiſting to the ſaid Wardens and Surveyors reſpectively, in making ſuch ſearches.

And that if any perſon or perſons whatſoever, do or ſhall counterfeit or deceitfully make, or cauſe to be counterfeited or deceitfully made, the Mark or Marks of the Corporation of Goldſmiths, or the Mark or Marks of any Goldſmith, entered and regiſtred as by the Statutes aforeſaid is directed, on any work of Gold or Silver whatſoever, that then ſuch perſon ſo offending, ſhall for every ſuch offence incurr the penalty of Fifty pounds, to be divided betwixt the King, and the party grieved that ſhall ſue for the ſame: And where the offender is not able to pay ſuch Fine, he ſhall undergo twelve months im-

priſonment

priſonment without Bail or Mainpriſe, and be alſo publickly whipt upon his naked back at the Carts Tail, once in every month during ſuch impriſonment.

And that the Wardens of the Goldſmiths aforeſaid, and all other Surveyors appointed for the Aſſaying and Marking the Goldſmiths works, and their Succeſſors reſpectively, ſhall and may lawfully detain and keep (the weight of) 4 grains of Silver, and no more, out of every ounce Troy, and ſo proportionable out of every leſſer weight, of all Silver works they do allow and mark for good, that ſhall contain in each piece under the weight of ſix ounces Troy, for and towards the extraordinary charge and pains about Aſſaying and Marking the ſame.

And that if any Action, Plaint, Suit or Information, ſhall be commenced or proſecuted againſt any perſon or perſons for what he or they ſhall do in purſuance, or in execution of this Act, ſuch perſon or perſons ſo ſued in any Court whatſoever, ſhall and may plead the general Iſſue Not guilty, *and upon any Iſſue joyned, may give this Act and the ſpecial matter in evidence: And if the Plaintiff or Proſecutor ſhall become Non-ſuit, or forbear further proſecution, or ſuffer a diſcontinuance, or if the Verdict paſs againſt him, the Defendants ſhall recover their treble coſts, for which they ſhall have the like remedy as in any caſe where coſts by the Law are given to Defendants.*

And that it may be enacted, that from time to time, and at all times hereafter, when any perſon is or ſhall be agrieved, by having received or bought of any Goldſmith, or other Trader in Goldſmiths works in London, *or five miles compaſs of the ſame City, any*

any manner of Gold or Silver work whatſoever, that is not of the fineneſs, or is worſe then the Standard appointed for Goldſmiths works by the Laws and Statutes of this Realm; It ſhall and may be lawful to and for any one or more Juſtices of the Peace, or chief Magiſtrate of the place where the offence ſhall be committed, he or they to be hereby required and enjoyned, upon proof to him or them reſpectively made of ſuch offence, by the Oath of the party grieved, of his or her receiving or buying the work, (and producing the Report of either the ſworn Aſſay-Maſter of the Goldſmiths-Hall, *or the ſworn Aſſay-Maſter of the* Tower of London, *under either of their hands, that the Work is worſe then Standard, and unlawful; which Aſſays and true Reports they and either of them, to be required readily to perform for uſual Fees; which Oath the ſaid Juſtice and Juſtices of the Peace, and chief Magiſtrate reſpectively, to be hereby impowred and required to adminiſter) to make Record of every ſuch offence under his or their hands and ſeals reſpectively, which Record ſo made as aforeſaid, to be to all intents and purpoſes in Law taken and adjudged to be a full and perfect conviction of every ſuch offender for every ſuch offence. By vertue of which Record, the Wardens of the Goldſmiths, or any one of them, (having the falſe Work, and a true Copy of the conviction, and Record of the offence, under the hands and ſeals of ſuch reſpective Juſtice or chief Magiſtrate, delivered to them or any one of them) ſhall and may lawfully, and are hereby authorized and required, with the aſſiſtance of a Conſtable, Headborough, or Tithing-man, (who are hereby required to be aiding and aſſiſting herein) to levie the full ſum that ſuch deceitful Gold or Silver*

ver works was sold at, to such respective person grieved, with necessary charges, and also twenty shillings for a Fine, in case the false Works be not of that value, by distress and sale of such offenders Goods and Chattels, rendring the overplus; and with such money to make re-payment to the party grieved his reasonable charges, and the aforesaid Fine and deceitful Work shall be to the use of the said Corporation.

Provided always, that where such offender shall find himself agrieved, by such conviction and distress as aforesaid, that it shall and may be lawful for him, within one week after the said distress shall be made as aforesaid, (and not after) to appeal in writing from the person convicted, (he entering into Recognizance before the Justice or Magistrate that made the Record, to prosecute the said Appeal to effect) to the Judgment of the Justices of the Peace in the Quarter-Sessions, to whom the Justice of the Peace, or chief Magistrate, or Alderman that first convicted the offender, shall certifie under his or their hands and seals the evidence upon which the conviction pass'd, and the whole Record thereof, and the said Appeal and Recognizance; whereupon such offender may plead and make defence, and have his tryal by a Jury thereupon. And in case such Appellant shall not prosecute with effect, or if upon such tryal he shall not be acquitted, or Judgment pass not for him upon his said Appeal, the said Justices at their Sessions shall give treble cost against such offender, for his said unjust Appeal: And no other Court shall intermeddle with any Cause or Causes of Appeal upon such conviction, record and distress, but it shall be finally determined in the Quarter-Sessions only.

This

This method may be fitted as effectual for all other places in the Kingdom, by impowring the Juſtices and chief Magiſtrates there, to iſſue forth their Warrants (after conviction and record made of the offence as aforeſaid) to make diſtreſs, and to re-pay the agrieved perſon: and the falſe Goods to be to the uſe of the Poor of the Pariſh, and liberty of Appeal as aforeſaid.

If this or ſome other proviſion ſhall be thought fit by our Law-makers to be made, for the better enabling the Wardens of the Goldſmiths to perform their duty, and to make the proſecution of theſe offenders *quick, cheap, and eaſie*, it will doubtleſs totally ſuppreſs theſe deceits.

But now as the caſe is, the Wardens will ſay, we are willing to do our duty to the utmoſt, we have provided an *Aſſay-Office* at our Hall, with Officers and all conveniences therein, for Aſſaying and Marking all Gold and Silver works that are Standard, and will conveniently bear the Marks.

We do not refuſe, but allow all Workers in Goldſmiths works in *London*, and three miles compaſs, the *Aſſay and Touch* at our Office, as thoſe free of our Company have.

We are ready at all times needful, and do *make ſearch* among all Workers and Traders in Goldſmiths works, and ſeverely puniſh the offenders for what offences we can find.

But here lyes *the miſchief that marrs all*, let us agree upon and appoint a ſearch as ſecret as we can, and ſo ſecretly proceed about the work, 'tis poſſible we may ſurprize one, two, or three of theſe *deceitful Traders* at firſt, and view and try their

their works. But 'tis certainly true, they will *give notice one to the other*; then all the reſt will preſently hide and lock up all their deceitful works, and when we come to ſearch, ſome pretend they have none but good, and *moſt will refuſe to open either Glaſs, Preſs, Compter, Box or Drawer, or Back-room*, (which is the principal place;) And ſome when having ſecured their falſe Works, will abſent themſelves until we are gone; and we doubting of our power to break open or puniſh the *contempt*, do depart: and thus our endeavours are made *fruitleſs* both in City and Country.

But Quere, *Whether the Goldſmiths and Traders in their Works, that do refuſe to give free liberty of ſearch, (to all or any of thoſe authorized by Law to ſearch, view and try the Goldſmiths works) be Indictable and Fineable by the Common Law for the* contempt; *if it be ſo, yet the charge and trouble, and little profit, will diſcourage the proſecution.*

And, *whether the Wardens of the Goldſmiths and other the Surveyors, have Authority (upon refuſal) to break open Glaſſes and Preſſes, and all places where they* do ſee *any works of their Trade, (among any Goldſmiths and Traders in their works) and to view and try the ſame; if they have, yet that Authority will avail little, for the Adulterated works are chiefly kept in more obſcurity.*

And the agrieved perſon will ſay, I have bought *a ſet of Silver Buckles*, and by the direction aforeſaid do find I am cheated 2, 3, or 4 *s.* or more in them; or, I have bought *a Silver Hilt*, and do find I am cheated 6, or 8, or 10, or 15 *s.* in it, and the pieces thereto belonging; *and ſo of*

other

other ſorts of ſmall works both of Gold and Silver, and the great Plate made remote from London: And he will ſay, he that ſold it me is a *cheating Knave*, I will go to him again, if I can conveniently, or can remember or know where he is, or inhabits, and Hector him to make me recompence; which if he refuſe to do, I conſider that to proſecute him at the *Seſſions*, will require the loſs of a great deal of time, and more charges than the ſum I am cheated of, eſpecially if he remove the Plaint into the *Kings-Bench Court*; or if I begin with him there, or any other Court, it will be the ſame thing, as to loſs of time and great expence, therefore I will omit the proſecution: And becauſe of the *diſparagement to wear ſuch braſſie counterfeit Gold or Silver*, I will put it off for what I can get, and take more care the next time I buy ſuch Works, or wholly omit the wearing of them.

This is the common ſaying among the people, and the apprehenſion of the diſcouragement in proſecuting the Workers and Sellers of theſe Adulterated cheating Works, is a great encouragement to their proceedings therein.

But my good Country-men, I pray conſider that none of you are born only for your ſelves, but ought to be helpful to the Publick; if ſome agrieved perſons are *timorous, unable, or ſo dull*, that they will rather ſuffer this way of cheating to proceed in a full torrent, than take a little pains, or be at a little charge to put a ſtop thereto; yet I hope ſome of you (having more *generous Spirits*, for the good and honour of your Country) will conſider, that although the proſecution

cution of theſe offenders for ſmall crimes, may be rather a loſs than gain to you; *yet the bringing theſe offenders ſometimes to publick puniſhment, will make them ſenſible that they are not ſecure as heretofore from the laſh of the Law, for ſuch their deceitful practices.* But if the proceedings of the Wardens, and the grieved perſons, were made more *effectual, cheap, quick and eaſie*, where the Wardens go once in their ſearch now, they would then go ten times; and where there is one agrieved proſecutor now; there would then be twenty: then who would dare to offend in the Goldſmiths Trade?

Now let me reaſon the caſe a little with you, that will notwithſtanding all that I have writ; and all the late puniſhments that have been inflicted for theſe offences, obſtinately and reſolutely perſiſt in working and ſelling unlawful Gold or Silver works, what do you think will be the right ways either to advance your Trade, or leſſen it?

Can you imagine that although the buyer perceive not the deceit at firſt, (when the work is newly ſold, *and cunningly ſet off, with all your skill*) that he will not perceive it in the *wearing like Braſs or Copper?* and when ſold again, be allowed but 3 *s.* or 3 *s.* 6 *d.* the ounce for the Silver, and but 2 *l.* 10 *s.* or 3 *l.* the ounce for the Gold, when he paid 5 *s.* the ounce for the Silver, and 4 *l.* the ounce for the Gold, beſides the Faſhion

You may be ſure he will not only repent the dealing with you, but publickly ſay, You are a very cheating Knave; and ſay alſo, Who would buy ſuch ſort of Works wherein is ſo much deceit,

ceit, but rather uſe any other thing inſtead thereof? *And thus people are diſcouraged to buy your Works, and your Trade decays*; whilſt you vainly think to treble your profit, but inſtead thereof loſe your Trade.

When otherwiſe if your Gold and Silver works be of Standard goodneſs, your Cuſtomers will ſay, *'Tis as good as money in their Pockets, weight for weight*; and that they know what they paid for the Faſhion, which is all the loſs they ſhall be at, *and the work wears creditable*; and they will not repent of their bargain, but publickly commend it, whereby others will be encouraged to buy ſuch Works, and ſo your Trade increaſes.

And I will aſſert, that if all the Gold and Silver works were made of Standard goodneſs, for one ounce that is therein uſed now, there would then be three ounces and more: And thus would your Trade flouriſh, and the old Proverb would be to you experimentally true, that *Honeſty is the beſt Policy*.

And although the old (but erronious) Proverb is, That honeſt dealing is a Jewel, but they that uſe it ſhall die Beggars; yet I have obſerved, and 'tis well known of ſeveral perſons that have got conſiderable Eſtates by indirect and unjuſt means, and it has mouldered and waſted away, and the parties come to a very mean condition.

And others who have uſed a good conſcience in their dealing, and have what in them lay, proceeded in all their ways by the rule of juſtice and honeſty, have been very proſperous, and arrived

to conſiderable Eſtates, and it hath continued to them and theirs.

But ſome Workers and Traders in Goldſmiths Works will ſay, others do make falſe and adulterated Works, and ſell cheap, and we work honeſtly *and have no gains coucht undiſcernably in the Metal*, therefore muſt have a ſuitable and viſible profit to our labour; and by conſequence our works muſt *bear a higher priſe* than the adulterated works of the ſame likeneſs and weight, or we cannot live: And the falſe works being *cheaper*, and yet more *gainful* than our honeſt works, will be vended, and have free paſſage amongſt the unskilful people, whilſt our good and lawful works will lie on our hands.

How then can we (by common reaſon) be induced to believe that our honeſty will maintain us, or your obſervation of the good ſucceſs of honeſt dealing be uſeful to us to prevent the neceſſity of our being brought to work; and ſell as bad as any, or ſtarve.

To which my honeſt Brethren, I ſay, you are obliged by the Laws of this Land, and Principles of Chriſtian Religion *to be true and juſt in all your dealings*, neither to cheat by your ſelf, nor be acceſſary to others cheating; not to work, or cauſe to be wrought or vended, falſe and adulterated Gold or Silver work of your own, nor to work it for others: if you do the contrary, 'tis Rebellion, and as the ſin of Witchcraft; in the practice of which you ſhall never proſper: and further, you are to conſider, you are placed by providence in this Trade for your livelihoods, and I hope have ingenuous capacities to manage it ſo, that you may

may appear to the world to be curious Artiſts. Then be you ingenious alſo to keep a Brotherly Correſpondence one with the other, and every one endeavour his uttermoſt (*to obtain the New Laws afore-propoſed*, and in the mean time) to diſcover, impeach, and proſecute by the aſſiſtance of the Wardens, and means, as afore is directed, all that do work or ſell adulterated works, this (with the never-failing ſeverity of the Courts on theſe Offenders) will break the hearts of knaviſh actions and deſigns in your Trade, all then muſt work Gold and Silver of a like goodneſs, none then can under-ſell you but will ruine themſelves: *And you cannot be accounted ignominious Informers, which are thoſe that ſue upon Penal Statutes, and aim more at the private lucre than the ſuppreſſing or preventing the Tranſgreſſion, and will unlawfully compound the Offence, or take bribes to forbear proſecution.* Be you clear from theſe in your proſecutions, and then you will be; nay you cannot be accounted other (without calumny and ſlander) than the parties grieved: and ſuch your proceedings being ſo juſt and honeſt, and honorable to your Trade and Nation, you will certainly have the Bleſſing of Divine Providence in ſo eminent a meaſure, that you will be forc'd to confeſs, that no ill courſe is comparable to the juſt and honeſt, for your growing rich, and that your Riches well gotten is bleſſed to you and yours.

THAT my good intent for preventing fraud not only in cases where Massy Gold and Silver are used, but also in other Works made or pretended to be made thereof, may take the better effect, I shall give you another Statute *still in force, made as well to suppress and prevent the Gilding and Silvering of Copper and Brass Works, and the deceit therein used, as the wasting the Gold and Silver of this Nation,* (viz.)

Stat. 5 *Hen.* 4. 13.

ITem, Whereas many fraudulent Artificers imagining to deceive the common people, do daily make Locks, Rings, Beads, Candlesticks, Harness for Girdles, Hilts, Challices and Sword-Pommels, Powder-Boxes, and Covers for Cups, of Copper, and of Laten, and the same over Guilt and Silver, like to Gold or Silver; And the same sell and put in gage to many When not having full knowledge thereof for whole Gold and whole Silver, to the great deceit, loss, and hinderance of the common people, and the wasting of the Gold and Silver. It is Ordained and Established, that no Artificer nor other man whatsoever he be from henceforth shall gild nor silver any such Locks, Rings, Beads, Candlesticks,

ſticks, Harneſs for Girdles, Chalices, Hilts, nor Pommels for Swords, Powder-Boxes nor Covers for Cups made of Copper or Laten, upon pain to forfeit to the King one hundred ſhillings, at every time that he ſhall be found guilty, and to make ſatisfaction to the party grieved for his damages: But that (Chalices always excepted) the ſaid Artificers may work, or cauſe to be wrought Ornaments for the Church of Copper and Laten, And the ſame Gilt or Silver, ſo that always in the foot, or in ſome other part of every ſuch Ornaments ſo to be made, the Copper and the Laten ſhall be plain, to the intent that a man may ſee whereof the thing is made, for to eſchew the deceit aforeſaid.

By which Statute the Gilding or Silvering any Locks, Rings, Beads, Candleſticks, Harneſs (that is, the Buckles) for Girdles, Chalices, Hilts, Pommels for Swords, Powder-Boxes and Covers for Cups made of Copper or Laten (to wit, Braſs) is poſitively forbid, upon the penalty of 5*l.* for every offence. And one reaſon thereof appears to be this, That ſuch working Copper or Laten, and covering the ſame with Gold or Silver, is not only a great waſting of the Gold and Silver, but the occaſion of a great fraud, by making ſuch Wares to be in appearance of the value of whole Gold and Silver, when indeed they are in the ſubſtance thereof but droſs and Counterfeit. And no doubt but ſome perſons at this day (as well as when that Statute was made) are or may be deceived by

ſuch falſe Counterfeit Works, and perhaps (when it is too late) experience the old Proverb to be true, *That all is not Gold that gliſters.*

And it is not to be doubted, but that the Makers of that Statute were well informed that Copper or Braſs may be wrought into very many ſorts of Work wherein Gold or Silver may be wrought. And becauſe much deceit was then uſed in the working of Buckles, and in Hilts and Pommels for Swords, *&c.* as well as of later times, ſuch ſevere penalties were laid on the Workers of ſuch falſe Wares, purpoſely to ſuppreſs all Counterfeit and deceitful Work.

Such works being not only a wrong to the wearer by doing little or no ſervice, (by reaſon of its brittleneſs, and its cankering and ſtinking quality, and ſoon loſing its Gold or Silver Colour) but alſo to the workers of whole Gold and whole Silver works, who are much hindered and damnified in their Trades, by reaſon ſuch falſe works are made to reſemble their true or right works, and ſold and worn inſtead thereof.

Therefore it may be reaſonably conceived, that the workers of whole Gold and whole Silver works are intended by the ſaid Statute, parties grieved as well as the wearer, and ſhall recover ſatisfaction from the Offenders.

And I am well aſſured, that the proſecution of the Offenders againſt this Statute (which may be done by Bill, Plaint or Information) belongeth to the Wardens and Company of *Goldſmiths, London*, as well as the private agrieved party.

And the makers and workers of ſuch counterfeit works are ſubjected to the Wardens and Com-

panies

panies power to Correct and puniſh in as full and ample manner as ſuch workers who cover Tin with Silver mentioned in their Charter.

I Will further add ſomething that may be uſeful to them that know it not, to prevent their being deceived with the Counterfeit Coin, that (notwithſtanding the great care uſed by our Governors to prevent it) is continually made and vended amongſt us. Wherefore they are to obſerve,

Firſt, That there is one ſort of unlawful Money, that is made ſo, (of the lawful Coin) by Clipping or Filing, or both, or otherwiſe lightening or impairing the ſame.

Secondly, There is another ſort of unlawful Counterfeit Money, made with the mixture of a little Silver and other baſer Metal, which by artificial working, boiling, and finiſhing, will be made much like in countenance, and near as paſſable as good Money.

Thirdly, There is another ſort of unlawful Money, made of ſolid Copper or Braſs, and covered or caſed over (on the flat parts as thick as paper, and on the edges near as thick as a ſixpence) with good Silver, and is commonly as paſſable as the other.

Fourthly, There is another ſort of Counterfeit Money made only of fine hardened Tin, which comes near (at firſt making) to the colour of good Silver Money.

For the knowing of theſe (one from another and all) from the Lawful Coin; Note further,

Of the firſt, The good Silver Coin that is clipt, filed or leſſened, although thereby made unlaw-

ful, yet according as it is more or leſs by theſe ways abuſed, the people do receive or refuſe it, as they can agree.

Of the ſecond, This ſort, although when artificially finiſht, it much reſembles the proper Silver Coin; yet it cannot be ſo cunningly done, but it may be diſcovered by its different aſpect from the good; if that give cauſe of ſuſpicion, rub either the edge or flat part of it upon a dry board that hath gravelly or gritty matter on it, as the ſtep of a ſtair, or ſuch like; or elſe when the ſurface or out-part of the edge is a little rub'd off, rub it on a good clean Touch-ſtone; as afore is directed: and if it be falſe, you will thereby diſcover it. Or elſe take a Goldſmiths Graver made ſharp, and enter it in ſome part of the flat of the Money as if you begun to engrave it, and in that hole or entrance (by viewing it in the light) if bad, it will appear in its yellowiſh colour.

Of the third, This ſort is always different from the good Silver money thus, (to wit) as the good Silver money hath frequently (I mean the old Money) ſmall cracks on the edges thereof, which is made by the forging it; ſo this ſort of Counterfeit Money is generally ſmooth on the edges without ſuch Cracks; and as the good Money will (being let fall or thrown flat on a ſolid Board) ring ſhrilliſh; ſo this ſort of bad Money, by reaſon its Caſe of Silver cannot be ſo united to its body of Braſs or Copper, but it will (if let fall or thrown as aforeſaid) ſound like Lead, where theſe ſigns give cauſe of ſuſpicion, the uſe of a Graver, as aforeſaid, will plainly diſcover it.

Of

Of the Fourth. This ſort is eaſily diſcovered thus, (that is to ſay) it cannot be avoided but its countenance will look much duller or darker than the good Money; and if you bite it, you may make greater impreſſions thereon with your teeth than on the good Coin, for it is ſofter, and much eaſier to be bent (either between the teeth, or in ſome chink or joynt of boards) than good Money.

There may be other ſorts of Counterfeit Silver money, and other ways to diſcover the ſame. But to enlarge this Diſcourſe on the critick-niceties of what is, or may be obſervable therein, and the Laws in force concerning the ſame, would not only ſwell this, but be matter for another Volume: Therefore I will only add, that ingenuous perſons, being well acquainted with the particulars of the foregoing Treatiſe, and theſe plain Rules here laid down, and by their care to obſerve nicely the *proportion*, *ſtamp*, *countenance*, *and wearing* of the good money, will eaſily diſcern its difference from the Counterfeit. And as the *Counterfeiting*, *Clipping*, *Rounding*, *Waſhing*, *Filing*, *Impairing*, *Diminiſhing*, *Falſifying*, *Scaling or Lightening*, (for wicked lucre ſake) the proper Money or Coins of this Realm, is High Treaſon by theſe Statutes (to wit) 25 *Edw.* 3. 2. and 5 *Eliz.* 11. and 18 *Eliz.* 1. And the Actors of theſe Crimes, their Counſellors, Conſenters, or Aiders therein, to be puniſhed accordingly: So the counterfeiting the Sterling or Standard Gold or Silver of this Realm, in any Works or Wares whatſoever, both the working, ſelling, expoſing to ſale, exchanging or bartering thereof, is ſeverely

verely puniſhable, as is afore made manifeſt: And it may be ſaid of the unlawful Money, as of the unlawful Gold and Silver Works, that if the people would (as they may) be ſo ingenuous to know and refuſe them, the maker of either would ſoon deſiſt from ſuch unlawful employments.

☞ Here is the proper place to inſert *Reynolds* his Tables, and Catalogue of Forein Coins; but for ſome reaſons they are referred to the latter end.

Here

Here followeth the CHARTER *of the* Cutlers *of the City of* London, *truly rendred into Engliſh; the Inrollment whereof is now remaining of Record in the Chappel of the Rolls, Confirmed in the Fifth Year of King* JAMES.

JAMES by the Grace of God, King of *England*, *Scotland*, *France*, and *Ireland*, Defender of the Faith, *&c.* To all men to whom theſe preſents ſhall come, Greeting.

Whereas our noble Progenitor, *Henry* after the Conqueſt the Sixth, having information, that by reaſon of the loſſes and unfortunate caſualties that happened to the men of the Myſtery of the *Cutlers* of the City of *London* by Sea, they then were not able to live but by the benevolence of well diſpoſed people; whereof he having a Princely conſideration, did by his Letters Patents of his eſpecial grace, grant and give licenſe to the foreſaid *Cutlers* of *London*, that they for ever after ſhould have one perpetual Commonalty of themſelves, and that the ſaid Commonalty ſhould chooſe, and make *Richard Wellon* Maſter of the Commonalty and Myſtery aforeſaid; and *Martin Goddard* and *John Chad* Wardens of the afore-

aforeſaid Commonalty and Myſtery for one year: and ſo every year one Maſter and two Wardens of the men of the foreſaid Commonalty and Myſtery to ſurvey and govern the ſaid Myſtery and Commonalty, and all perſons and their works for ever.

And further of his meer grace did grant and give licenſe for him and his Heirs to the foreſaid Maſter, Wardens, and Commonalty, that they and their Succeſſors, Maſters, Wardens, and Commonalty of the Myſtery aforeſaid for the time being, might purchaſe Lands, Tenements, and Rents to the value of 20 *l per ann* as by the ſaid Letters Patents more at large appeareth.

And whereas the ſaid Letters Patents have been by divers of our Noble Progenitors ſince that time allowed and confirmed, as by the ſeveral confirmations thereof likewiſe more at large appeareth.

Now know ye, That we at the humble Petition of the Company of *Cutlers* of *London*, and the Suburbs thereof, for the better Rule and Government of the ſaid Company, and every of them; and for the avoiding of divers deceipts and abuſes uſed in the ſaid Myſtery, to the great damage and loſs of our loving Subjects, of our eſpecial grace, certain knowledge, and meer motion, have willed, ordained, conſtituted and granted; and by theſe preſents for Us, Our Heirs and Succeſſors, do will, ordain, conſtitute and declare and grant, that all and ſingular the perſons of the Commonalty and Myſtery of the Cutlers of the City of *London* and the Suburbs thereof, for ever hereafter are and ſhall be by virtue of theſe preſents, one

one Body Corporate and Politick in deed and name, by the name of *Maſter, Wardens, and Commonalty of the Myſtery of Cutlers of* London.

And them by the name of Maſter, Wardens, and Commonalty of the Myſtery of *Cutlers* of *London*, We do by theſe preſents for Us, Our Heirs and Succeſſors, really and fully create, make, ordain, conſtitute and declare one body corporate and politick in deed and name.

And that by the ſame name of Maſter, Wardens, and Commonalty of the Myſtery of *Cutlers* of *London*, they ſhall and may have perpetual ſucceſſion. And that they and their Succeſſors by the name of *Maſter, Wardens, and Commonalty of the Myſtery of Cutlers of* London, ſhall and may be for ever hereafter perſons able and capable in Law to purchaſe, have, receive, and enjoy, *Manors, Meſſuages, Lands, Tenements, Liberties, Priviledges, Juriſdictions, Franchiſes, and other Hereditaments* whatſoever, of whatſoever kind, nature or quality they be to them and their Succeſſors, in fee and perpetuity, or for term of life, lives, year or years, or otherwiſe, in what ſort ſoever. And alſo all manner of Goods, Chattels, and things whatſoever, of what name, nature or quality ſoever they be.

And alſo to give, grant, ſet, let, alien, aſſign and diſpoſe of Mannors, Meſſuages, Lands, Tenements, and other Hereditaments; Goods, Chattels, and things whatſoever: And alſo to do and execute all and ſingular other Acts and things whatſoever by the name aforeſaid.

And that by the ſame name of *Maſter, Wardens, and Commonalty of the Myſtery of Cutlers of* Lon-

London, they ſhall and may be able to plead, and be impleaded, to anſwer and be anſwered unto, to defend and be defended in all Courts and places whatſoever, and before whatſoever Judge or Juſtices, or other perſons and Officers of Us, Our Heirs or Succeſſors, in all and ſingular Actions, Plaints, Pleas, Suits, matters and demands of whatſoever kind, nature, or quality they be, in the ſame manner and form as any other our Liege Subjects of this our Realm of *England*, being perſons able and capable in Law, or any other Body Corporate and Politick within this Realm of *England*, can or may have, purchaſe, receive, poſſeſs, enjoy, retain, give, grant, ſet, lett, alien, aſſign and diſpoſe, plead and be impleaded, anſwer and be anſwered unto, defend and be defended, do, permit, and execute.

And that they the ſaid Maſter, Wardens, and Commonalty of the Myſtery of *Cutlers* of *London*, for ever hereafter ſhall and may have *a Common Seal* to ſerve for the cauſes and buſineſſes of them and their Succeſſors; and that it ſhall be lawful for them and their Succeſſors to change, break, alter, and to make anew the ſaid *Seal* from time to time at their pleaſure as they ſhall think beſt.

And further, We will, and by theſe preſents for Us, Our Heirs and Succeſſors, We do grant to the ſaid Maſter, Wardens, and Commonalty of the Myſtery of the *Cutlers* of *London* aforeſaid, and their Succeſſors, that for ever hereafter there ſhall and may be one of the Commonalty and Myſtery aforeſaid in manner and form hereafter in theſe preſents mentioned, choſen, and named which

which ſhall be, and be called the *Maſter* of the ſaid Commonalty of the Myſtery of the *Cutlers* of *London*.

And that likewiſe there ſhall and may be *Two* of the ſaid Commonalty and Myſtery in manner and form hereafter in theſe preſents expreſſed, choſen, and named, which ſhall be, and be called the *Wardens* of the ſaid Commonalty of the Myſtery of *Cutlers* of *London*.

And alſo that there ſhall and may be *Twenty* of the Commonalty aforeſaid in manner and form hereafter expreſſed, named, and ſworn, which ſhall be, and be called the *Aſſiſtants* of the ſaid Commonalty of the Myſtery of the *Cutlers* of *London*, and from time to time ſhall be *aſſiſting and aiding* to the Maſter and Wardens of the ſaid Commonalty and Myſtery aforſaid for the time being in all cauſes, matters, and buſineſſes touching or concerning the ſaid Commonalty.

And further We will, and by theſe preſents for Us, Our Heirs and Succeſſors, do grant unto the ſaid Maſter, Wardens, and Commonalty of the Myſtery of the *Cutlers* of *London*, and their Succeſſors, That it ſhall and may be lawful to and for the ſaid Maſter and Wardens of the ſaid Commonalty and Myſtery for the time being, or to the greater part of them, calling to them the moſt part of the Aſſiſtants for the time being, as often as they ſhall think it needful or expedient to Aſſemble, Convocate, and Congregate themſelves together, at, and in their Hall, or any other convenient place within the City of *London*, or the Suburbs thereof, and there from time to time, and at all convenient times hereafter to entreat, conſult,

conſult, determine, conſtitute, ordain and make any *Conſtitutions, Laws, Ordinances, Statutes, Articles and Orders whatſoever*, which to them, or the greater part of them as is aforeſaid, ſhall ſeem reaſonable, profitable, or requiſite, for touching or concerning the good Eſtate, Rule, Order, and Government of the ſaid Commonalty of the ſaid Myſtery of the ſaid *Cutlers*, as to them, according to their wiſdom and diſcretion ſhall ſeem convenient; and in what order and manner the ſaid Maſter, Wardens, and Commonalty of the ſaid Myſtery, and all other perſon and perſons uſing the ſaid Myſtery within the City of *London*, and the Suburbs thereof, and within three miles of the ſame City ſhall demean and behave themſelves, as well in all and ſingular matters, cauſes, and things touching or concerning the ſaid Myſtery, or any thing therunto appertaining.

As alſo in their ſeveral Offices, Miniſteries, Functions, and buſineſſes touching or concerning the ſaid Commonalty and Myſtery as aforeſaid, and all and ſingular ſuch Pains, Penalties, Puniſhments and Impriſonments of body, or by Fine or Amerciament, or by any of them, againſt or upon any Offender or Offenders which ſhall tranſgreſs, break, or violate the ſaid *Conſtitutions, Statutes, Laws, Ordinances or Orders* ſo to be made, ordained, and eſtabliſhed, or heretofore made, ordained, and eſtabliſhed, or any of them to impoſe, provide, and limit and the ſame, and every part thereof to ask, levy, take and receive by way of diſtreſs or otherwiſe, by any *lawful ways or means*, of or againſt the ſaid Offender or Offenders, his or their Goods or Chattels, or any of them, as the

the cauſe ſhall require: And as to the Maſter, Wardens, and Aſſiſtants of the ſaid Commonalty and Myſtery, or the greater part of them in manner as aforeſaid ſhall ſeem moſt convenient or expedient.

All which *Laws, Orders, Ordinances, Conſtitutions, Inſtitutions and Articles*, ſo made or to be made, ordained and eſtabliſhed, We will and by theſe preſents for us, our Heirs and Succeſſors, do grant and command to be from time to time, and at all times kept, obeyed and performed in all things, as the ſame ought to be, upon the pains, penalties and puniſhments in the ſame to be impoſed, inflicted and limited: *So as the ſame Laws, Statutes, Articles and Ordinances, pains, penalties, impriſonments, Fines and Amerciaments be reaſonable, and not repugnant or contrary to the Laws and Statutes of this our Realm of* England, *nor the laudable cuſtoms of our City of* London.

And for the better executing of this our Grant in that behalf, we have aſſigned, named, conſtituted and made, and by theſe preſents for us, our Heirs and Succeſſors, do aſſign, create, conſtitute and make our well-beloved Subject *Thomas Porter*, Citizen and Cutler of *London*, to be the preſent Maſter of the ſaid Commonalty and Myſtery of the Cutlers of *London*, to continue in the ſame Office until the Even of the Holy Trinity next following the date hereof, (if the ſaid *Thomas Porter* ſhall ſo long live) and from thence until one other of the ſaid Commonalty and Myſtery ſhall be named and choſen unto the Office of Maſter of the ſaid Commonalty and Myſtery,

in due manner, according to the Ordinances and Proviſions hereafter in theſe preſents mentioned and expreſſed.

And alſo we have aſſigned, named, conſtituted and made, and by theſe preſents for us, our Heirs and Succeſſors, we do aſſign, name, conſtitute and make our well-beloved Subjects *William Bagley* and *Thomas Cheſhire*, Citizens and Cutlers of *London*, to be the preſent Wardens of the ſaid Commonalty and Myſtery of Cutlers of *London*, to continue in the ſaid Offices of Wardens until the ſaid Even of the Holy Trinity, if the ſaid *William Bagley* and *Thomas Cheſhire* ſhall ſo long live; and from thence until two other of the ſaid Commonalty and Myſtery ſhall be choſen into the ſaid Office of Wardens of the ſaid Commonalty and Myſtery of the Cutlers of *London*, according to the Ordinances and Proviſions in theſe preſents expreſſed and declared.

And we have aſſigned, named, conſtituted and made, and by theſe preſents for us, our Heirs and Succeſſors, do aſſign, name, conſtitute and make our well-beloved Subjects *Richard Haws*, *Thomas Green*, *John Gardiner*, *Thomas Aſher*, *Oliver Plucket*, al. *Plucket*, *George Ellis*, *Reynold Green*, *Chriſtopher Hatfield*, *William Helie*, *John Beſton*, *Henry Adams*, *Edward Andrews*, *Laurence Evans*, *John Johnſon*, *Nathaniel Mathews*, *Miles Bancks*, *John Porter*, and *James Tackley*, Citizens and Cutlers of *London*, to be the firſt and preſent Aſſiſtants of the ſaid Commonalty and Myſtery of the Cutlers of *London*, to continue in the ſaid Office of Aſſiſtants during their natural lives, unleſs they or any one or more of them, ſhall *for time* be removed

moved for evil Government, or miſ-behaving of him or themſelves in the ſaid Office or Offices of Aſſiſtant or Aſſiſtants, or for ſome other reaſonable cauſe.

And further we will, and by theſe preſents for us, our Heirs and Succeſſors, we do grant unto the ſaid Maſter, Wardens and Commonalty of the Myſtery of the Cutlers of *London*, and their Succeſſors, That the Maſter, Wardens, Aſſiſtants and *Livery* of the ſaid Commonalty and Myſtery for the time being, or the greater part of them as aforeſaid, from time to time for ever hereafter, ſhall have full power and authority, yearly and every year upon the Even of the Holy Trinity, to elect and nominate *one* of the Freemen of the ſaid Commonalty and Myſtery of the Cutlers of *London*, which ſhall be *Maſter* of the ſaid Commonalty and Myſtery for one whole year from thence next enſuing, and from thence until one other of the ſaid Commonalty and Myſtery of the Cutlers of *London*, be choſen into the ſaid Office of *Maſter* of the ſaid Commonalty and Myſtery, according to the Ordinances and Proviſions in theſe preſents expreſſed and declared.

And that he which ſhall ſo be choſen and named into the ſame Office of Maſter of the ſaid Commonalty and Myſtery, before he be admitted to execute the ſaid Office, ſhall *take his corporal Oath* before the Maſter of the ſaid Commonalty and Myſtery his predeceſſor, and the Wardens of the ſaid Commonalty and Myſtery for the time being, well and truly to execute the ſaid *Office of the Maſter* of the ſaid Commonalty

and Myſtery, in all things concerning the ſaid Office; and that after the ſaid Oath ſo as aforeſaid to be taken, he ſhall have and exerciſe the ſaid Office for one whole year from thence next enſuing, and from thence until one other be choſen and ſworn in form aforeſaid, into the ſaid Office of *Maſter* of the ſaid Commonalty and Myſtery, in manner and form before in theſe preſents expreſſed.

And likewiſe that they may elect, nominate and chuſe two other of the Freemen of the ſaid Commonalty and Myſtery of the Cutlers of *London*, which ſhall be *Wardens* for one whole year from thence next enſuing, and from thence until two other of the ſame Commonalty and Myſtery *be choſen and ſworn* unto the ſaid Office of Wardens of the ſaid Commonalty and Myſtery, according to the Ordinances and Proviſions in theſe preſents expreſſed and declared.

And that they which ſhall be ſo choſen and named into the ſaid Office of Wardens of the ſaid Commonalty and Myſtery of the Cutlers of *London*, before they be admitted to execute the ſaid Offices, ſhall take *their corporal Oaths* before the laſt Maſter and Wardens of the ſaid Commonalty and Myſtery, their laſt predeceſſors, well and truly to execute the ſaid Office of Wardens, in all things touching and concerning the ſaid Offices: And that after ſuch Oaths ſo as aforeſaid to be taken, they ſhall and may exerciſe the ſaid Offices for one whole year from thence next enſuing, and from thence until two other be choſen and ſworn in form aforeſaid into the ſaid Offices of Wardens of the ſaid Commonalty and

and Myſtery, in manner and form before in theſe preſents expreſſed and declared.

And further we will, and by theſe preſents for us, our Heirs and Succeſſors, do grant to the ſaid Maſter, Wardens and Commonalty of the Myſtery of the Cutlers of *London*, and their Succeſſors, That if it happen the Maſter and Wardens of the ſaid Commonalty and Myſtery for the time being, or any of them, to die, or otherwiſe for any reaſonable cauſe to be removed or diſmiſſed from his, their, or any of their Office or Offices of Maſter and Warden aforeſaid, or any of them, within the year wherein they or any of them ſhall be ſo elected and choſen as is aforeſaid; That then and ſo often it ſhall be lawful to and for ſuch and ſo many of the ſaid Maſter, Wardens, Aſſiſtants and Livery, which ſhall be then living or remaining, or the greater part of them, at their pleaſure *to chooſe, make and ſwear* one other of the ſaid Commonalty and Myſtery to be Maſter, Warden or Wardens of the ſaid Commonalty and Myſtery, according to the Ordinances and Proviſions before in theſe preſents expreſſed and declared; to execute and exerciſe the ſaid Office of Maſter, or the ſaid Offices of Warden or Wardens of the ſaid Commonalty and Myſtery, until the ſaid Even of the Holy Trinity then next following, firſt taking their corporal Oaths in form as is aforeſaid, and ſo often as the caſe ſhall require.

And further, we will, and by theſe preſents for us, our Heirs and Succeſſors we do grant to the ſaid Maſter, Wardens, and Commonalty of the Myſtery of *Cutlers* of *London*, and their Succeſſors,

that whenſoever it happeneth, any of the ſaid Aſſiſtants of the ſaid Commonalty and Myſtery for the time being to die or be removed from his or their Office or Offices: All which Aſſiſtants, and every or any of them we will ſhall be removable, and to be removed by the ſaid Maſter and Wardens, and Aſſiſtants of the ſaid Commonalty and Myſtery, or the greater part of them in manner as aforeſaid, for evil Government, Miſ-behaviour, or for any other reaſonable cauſe, that then, and ſo often it ſhall and may be lawful to and for the ſaid Maſter, Wardens, and ſo many of aſſiſtants which ſhall then ſurvive or remain, or the greater part of them in manner as aforeſaid, at their will and pleaſure, from time to time to chooſe and name one other or more of the ſaid Commonalty to be Aſſiſtant or Aſſiſtants of the ſaid Commonalty and Myſtery in his or their place and ſtead which ſhall ſo happen to die or be removed, as is aforeſaid.

And that he and they which ſhall be ſo choſen and named to be Aſſiſtant or Aſſiſtants of the ſaid Commonalty and Myſtery as aforeſaid, before that he or they, or any of them be admitted to his or their execution of the ſaid Office or Offices of Aſſiſtant or Aſſiſtants ſhall take their Corporal Oaths before the Maſter and Wardens of the ſaid Commonalty and Myſtery for the time being, well and truly to execute the ſaid Office or Offices, and ſo as often as the caſe ſhall require.

And further, we will, and by theſe preſents for us, our Heirs and Succeſſors, do grant to the ſaid Maſter, Wardens, and Commonalty of the Myſtery of the *Cutlers* of *London* and their Succeſſors,

ceſſors, ſpecial Licenſe, and free and lawful power and authority to *have, receive, and purchaſe* to them and their Succeſſors for ever, as well of us, our Heirs and Succeſſors, as of any the Subject or Subjects of us, our Heirs or Succeſſors whatſoever, *Mannors, Meſſuages, Lands, Tenements, Rectories, Tithes, Rents, Revenues, and other poſſeſſions and Hereditaments whatſoever*, which are not held of us, our Heirs or Succeſſors immediately in chief, nor by Knights Service: So that all the ſaid Mannors, Meſſuages, Lands, Tenements and other Hereditaments whatſoever, ſo by them to be had, perceived, or purchaſed by virtue of theſe preſents, *do not exceed in the whole to clear the yearly value of one hundred Marks*, the Statute of Lands and Tenements, not to be put into *Mortmaine*, or any other Statute, Act, Ordinance, Proviſion or Reſtraint, or any other thing, cauſe, or matter whatſoever to the contrary in any wiſe notwithſtanding.

And alſo we grant, and by theſe preſents for us, our Heirs and Succeſſors, do give free, full, and lawful licenſe, power, and authority to any the Subject or Subjects of us, our Heirs, or Succeſſors whatſoever, and every of them, that they and every or any of them ſhall and may be able to give, grant, aſſign, or by any other lawful ways or means whatſoever, alien, deviſe, or aſſign, to the ſaid Maſter, Wardens, and Commonalty of the Myſtery of the *Cutlers* of *London*, and their Succeſſors, any Mannors, Meſſuages, Lands, Tenements, Rectories, Tythes, Rents, Reverſions, Services, and other Hereditaments whatſoever, which are not held of us, our Heirs or Succeſſors

ceſſors immediately in chief, nor by Knights Service: So that the ſame Mannors, Meſſuages, Lands, Tenements, and other Hereditaments whatſoever, ſo as aforeſaid to be given, granted, ſold, alienated or deviſed, *do not exceed in the whole the clear value of one hundred Marks* by the year: The Statutes of Lands and Tenements not to be put in *Mortmaine*, or any other Statute, Act, Ordinance, Proviſion or Reſtrain, or any other cauſe, matter, or thing whatſoever to the contrary thereof in any wiſe notwithſtanding.

And further, we will, and by theſe preſents for us, our Heirs and Succeſſors, do grant to the ſaid Maſter, Wardens, and Commonalty of the Myſtery of the *Cutlers* of *London*, and their Succeſſors, that they and their Succeſſors ſhall and may have *one honeſt and diſcreet perſon* in manner and form hereafter in theſe preſents to be choſen and named which ſhall be, and be called the *Clerk* of the ſaid Commonalty and Myſtery of *Cutlers* of *London*.

And we have aſſigned, conſtituted, made, named and ordained; and by theſe preſents, for us and our Heirs and Succeſſors, do aſſign, conſtitute, make, name and ordain our well-beloved Subject *Thomas Jadwyn to be the firſt and preſent Clerk* of the ſaid Commonalty and Myſtery of *Cutlers* of *London*, to continue in the ſaid Office during the term of his natural life, except he ſhall be removed by the Maſter, Wardens, and Aſſiſtants for the time being, or the greater part of them for evil Government, or for any other reaſonable cauſe, and that from time to time, and at all times after the death or removing of the

ſaid

ſaid *Thomas Jadwyn*, the Maſter, Wardens, and Aſſiſtants of the ſaid Commonalty and Myſtery for the time being, or the greater part of them, ſhall and may chooſe and make one other diſcreet perſon to be Clerk of the ſaid Commonalty and Myſtery; and that the ſaid Clerk now named, as alſo he which ſhall be choſen and made to be Clerk of the ſaid Commonalty and Myſtery after the death or remo ing of the ſaid *Thomas Jadwyn*, as is aforeſaid, ſhall and may exerciſe and enjoy the ſaid Office of Clerk of the ſaid Commonalty and Myſtery *during the good will and pleaſure* of the Maſter, Wardens, and Aſſiſtants of the ſaid Commonalty and Myſtery for the time being, or the greater part of them in manner as aforeſaid.

And that every one of the ſaid Clerks ſo named, or to be named and appointed from time to time as aforeſaid ſhall take his or their Corporal Oath or Oaths before the Maſter, Wardens, and Aſſiſtants of the ſaid Commonalty and Myſtery for the time being, or the greater part of them, well and truly to execute the Office of Clerk of the ſaid Commonalty and Myſtery in all things appertaining to the ſaid Office, according to his skill and knowledge; and ſo from time to time as often as the caſe ſhall require.

And further, of our more ſpecial grace, certain knowledge, and meer motion, we have granted and confirmed, and by theſe preſents, for us, our Heirs and Succeſſors, we do ratifie and confirm unto the ſaid Maſter, Wardens, and Commonalty of the ſaid Commonalty and Myſtery of the *Cutlers* of *London*, and their Succeſſors, and all manner

ner Liberties, Franchiſes, Immunities, Exemptions, Juriſdictions, Meſſuages, Lands, Tenements, and Hereditaments whatſoever, which the ſaid Maſter, Wardens, and Commonalty, or any of their Predeceſſors, by what name or names ſoever, or by virtue of what Incorporation ſoever, now have, hold, uſe and enjoy, or heretofore have had, held, uſed or enjoyed by reaſon or force of any of the Charters or Letters Patents of any of our Progenitors or Predeceſſors, Kings or Queens of *England*, by any manner of means heretofore made or granted, or by any other means, right, title, uſe, cuſtom or preſcription heretofore had, uſed or accuſtomed, *although the ſame, or any of them heretofore have not been uſed, or have been abuſed, evil uſed or diſcontinued*; *and although the ſame or any of them have been forfeited or loſt.*

To have and to hold the ſame Meſſuages, Lands, Tenements, Liberties, Priviledges, Franchiſes, Juriſdictions, and other the Premiſſes before by theſe preſents granted unto the ſaid Maſter, Wardens, and Commonalty of the *Cutlers* of *London*, and their Succeſſors, for ever to be held of us, our Heirs and Succeſſors, by ſuch, the ſame and the like Rents, Services, and ſums of money, as the ſame were formerly holden, and not otherwiſe: Wherefore we will, and by theſe preſents do ſtraitly charge and command for us, our Heirs and Succeſſors, that the ſaid Maſter, Wardens, and Commonalty of the ſaid Commonalty and Myſtery of *Cutlers* of *London* and their Succeſſors, ſhall and may have, hold, and enjoy for ever, all the ſaid Meſſuages, Lands,

Lands, Tenements, Liberties, Authorities, Juriſdictions and Franchiſes aforeſaid, according to the tenor and effect of theſe our Letters Patents, without the lett or hinderance of us, our Heirs or Succeſſors, or of any Juſtices, Sheriffs, Bailiffs, or other Officers or Miniſters of us, our Heirs or Succeſſors whatſoever; willing that neither the ſaid Maſter, Wardens, or Commonalty, nor any of them, by reaſon of the Premiſſes, or any of them, by us, our Heirs or Succeſſors, the Juſtices, Sheriffs, Eſcheators, or other Bailiffs or Miniſters of us, our Heirs or Succeſſors whatſoever, be thereof hindered, moleſted, vexed, grieved, or in any wiſe troubled; willing, and by theſe preſents, charging and commanding as well our Treaſurer, Chancellor, and Barons of our *Exchequer* at *Weſtminſter*, and other the Judges and Juſtices of us, our Heirs and Succeſſors; as alſo our Attorney or Solicitor General for the time being, and every of them, and all other our Officers and Miniſters whatſoever; that neither they, nor any of them do proſecute, or continue, or cauſe to be proſecuted or continued any Writ or Summons of (*quo Warranto*) or any other Writ, Writs, or Proceſs whatſoever, againſt the ſaid Maſter, Wardens, and Commonalty, or any of them, for any Cauſe, Thing, Matter, Offence, Claim or Uſurpation, or any of them, by them, or any of them, claimed, attempted, uſed, had or uſurped *before the making of theſe preſents*; willing alſo, that the ſaid Maſter, Wardens, and Commonalty, or any of them, by any of the Juſtices, Officers, or Miniſters aforeſaid, in or for the due uſe, claim, or abuſe of any Liberties, Franchiſes or Juriſdictions

ctions within the ſaid City of *London* or Suburbs thereof, before the making of theſe preſents, be not moleſted, troubled, or hindered, or compelled to anſwer to them, or any of them.

And further, we will, and by theſe preſents for us, our Heirs and Succeſſors, for the better order, rule, and government of all and ſingular perſon and perſons which now do uſe, or hereafter ſhall uſe the Myſtery, Art, or Trade of *Cutlers* within the ſaid City of *London*, or Suburbs thereof; and within three miles of the ſaid City we do give and grant to the ſaid Maſter, Wardens, and Commonalty of the Commonalty and Myſtery of *Cutlers* of *London*, and their Succeſſors, that the ſaid Maſter, Wardens, and Aſſiſtants of the ſaid Commonalty and Myſtery for the time being for ever hereafter *ſhall have the overſight, view, ſearch, correction and government of all and ſingular perſons whatſoever occupying, exerciſing, or uſing the ſaid Myſtery, Art or Trade of* Cutlers *within the ſaid City of* London, *and Suburbs thereof, and within three miles of the ſaid City*, as well within places exempt as not exempt; and ſhall have power and authority by virtue of theſe preſents, *according to the Laws of the Realm* to puniſh and correct, or cauſe to be puniſhed and corrected offendors for their Offences, Deceits, Falſhoods, Abuſes, or Miſdemeanors in the falſe, inſufficient and deceitful occupation or uſe of the Myſtery, Art, or Trade of *Cutlers* aforeſaid, according to their demerits in that behalf.

Wherefore we will, and by theſe preſents, for us, our Heirs and Succeſſors, do ſtraitly charge and command all and ſingular *Mayors, Juſtices, Sheriffs,*

Sheriffs, Conſtables, and all other the Officers, Miniſters, and Subjects of us, our Heirs and Succeſſors whatſoever, that they and every of them be *aiding, helping, aſſiſting, and comforting*, to the ſaid Maſter, Wardens, and Aſſiſtants of the Commonalty and Myſtery of *Cutlers* of *London* aforeſaid for the time being, and every of them, to do, enjoy, have, and execute all and ſingular thing and things whatſoever by us before by theſe preſents granted unto the ſaid Maſter, Wardens, and Commonalty aforeſaid, and every or any part or parcel thereof, according to the tenor and true meaning of theſe preſents, although expreſs mention of the true yearly value or certainty of the Premiſſes, or any of them, or of any other gifts or grants by us or any of our Progenitors or Predeceſſors to the aforeſaid Maſter, Wardens, and Commonalty heretofore made in theſe preſents is not made, or any Statute, Act, Ordinance, Proviſion, Proclamation or Reſtraint to the contrary hereof had, made, ordained, or provided, or any other thing, cauſe or matter whatſoever in any wiſe notwithſtanding.

In witneſs whereof, we have cauſed theſe our Letters to be made Patents. Witneſs our Self at *Weſtminſter* the 8th. day of *July*, in the fifth year of our Reign, of *England*, *France*, and *Ireland*, and of *Scotland* the Fortieth.

Per breve de privat' Sigillo, &c.

Cartwright.

Thus

Thus I have given you a true account of the *Cutlers* Charter of Incorporation, wherein is given them great Power and Authority in the affairs of that Myſtery: And for their further encouragement, divers Acts of Parliament have been made (and are now in force) for prohibiting the Importation of ſeveral Works (belonging to the ſame Trade) wrought in Foreign parts; as Stat. 3 *Edw.* 4. 4. and Stat. 1 *Rich.* 3. 12. and Stat. 5 *Eliz.* 7. and part of Stat. 14 *Car.* 2. 11. all which I will here cite *verbatim*, (viz.)

Stat. 3 Edw. 4. cap. 4.

ITem, Whereas in the ſaid Parliament, by the Artificers of manual Occupations, men and women inhabiting and reſident in the City of London, and other Cities, Towns, Burroughs and Villages within the ſame Realm of England and Wales, it hath been piteouſly ſhewed and complained, how that all they in general, and every of them, be greatly impoveriſhed, and much hindred and prejudiced of their worldly increaſe and daily living, by the great multitudes of divers Commodities and Wares pertaining to their Myſteries and Occupations, being fully wrought and ready made to ſale, as well by the hands of Strangers being the Kings Enemies, as other in this Realm and Wales, fetched and brought from beyond the Sea, as well by Merchant Strangers as Denizens, and other perſons, whereof the greateſt part in

ſub

ſubſtance is deceitful and nothing worth, in regard of any mans Occupation or Profit; by which occaſion the ſaid Artificers cannot live by their Myſteries and Occupations, as they have done in times paſt, but divers of them, as well Houſholders as Hirelings, and other Servants and Apprentices in great numbers, be at this day unoccupied, and do hardly live, in great miſery, poverty and need, whereby many inconveniences have grown before this time, and hereafter more be like to come, (which God defend) if due remedy be not in this behalf provided.

Our redoubted Sovereign Lord the King conſidering the premiſſes, and willing in this caſe to provide remedy, by the Adviſe, Aſſent and Authority aforeſaid, hath ordained, enacted and eſtabliſhed,

That no Merchant, born Subject of our ſaid Lord the King, Denizen nor Stranger, nor other perſon, after the Feaſt of St. Michael the Archangel next coming, ſhall bring, ſend nor convey, nor cauſe to be brought, ſent nor conveyed into this Realm of England, and Seigniory of Wales, any of the Chaffers, Wares or Things underwritten; that is to ſay, any woollen Caps, woolled Cloths, Laces, Coyſes, Ribbands, Fringes of Silk and of Thred, Laces of Thred, Silk twined, Silk in any wiſe embroidered, Laces of Gold, of Silk or Gold, Saddles, Stirrups, or any Harneſs pertaining to Saddles, Spars, Boſſes for Bridles,

dles, Andirons, Gridirons, any manner of Locks, Hammers, Pinsons, Fire-Tongs, Dripping-pans, Dice, Tennis-balls, Points, Purses, Gloves, Girdles, Harness for Girdles of Iron, Laten, Steel, Tin, or of Alkmine, any thing wrought of any tawed Leather, any tawed Furs, Buskans, Shoes, Galoches or Cozks, Knives, Daggers, Wood-knives, Bodkins, Shears for Taylors, Scissars, Razors, Chess-men, Playing-Cards, Combs, Pattens, Packneedles, any Painted ware, Forcers, Caskets, Rings of Copper or of Laten gilt, Chasing-dishes, Hanging Candlesticks, Casting-balls, Sacring-balls, Rings for Curtains, Ladles, Scummers, counterfeit Basons, Ewers, Hats, Brushes, Cards for Woll, black Iron Thred, commonly called and named White Wier, or any of those Wares or Chaffers to be uttered and sold within the same Realm of England, or in the Country of Wales, by way of Merchandize, upon pain to forfeit the same Merchandizes, at every time, and as often as they may be found in the hands of any person to be sold.

The one half of the same forfeitures to be paid to the use of our Lord the King, and the other half to him that will first seize the same for the King; the same half by him so seized for our Lord the King, to be delivered by the said seizer thereof to the Escheator of the Country or place, where the same seizen shall be made by In-

Indenture betwixt them made duly to answer thereunto in his Accompt.

Provided always, that if any of the said Wares or Chaffers made out of this Land, be taken upon the Sea, without fraud or collusion, or come in this Realm of England, or the Country of Wales, by way of Wreck, that those be in no wise taken within this Act or Statute, but that they may be sold within this Realm of England, or Wales, this Act or Statute notwithstanding.

Provided also, that all Wares and Chaffers made and wrought in the Land of Ireland, or Wales, may be brought and sold in this Realm of England, as they were wont before the making of this Statute, this Act or Statute notwithstanding.

Also our Lord the King hath ordained and established, by the Assent and Authority aforesaid, That the Masters and Wardens for the time being of every Craft and Mystery, in every City, Borough, Town and Village, where any such Craft or Mystery is used or occupied, shall have sufficient power and authority in every such City, Town, Borough and Village, where they for the time being shall be Wardens or Masters of any such Craft or Mystery; and the Mayor of such City, Borough, Town or Village, for the time being, if any Mayor be, or the Bayliffs or Bayliff of any such City, Borough, Town or Village, for the time being, if any Bayliffs or Bayliff there be; And no Mayor

or Serjeant, or any other Officer to them assigned, by the said Mayor, Bayliffs or Bayliff, in every such City, Borough, Town and Village, where any such Craft or Mystery is used or occupied, where no such Masters nor Wardens of any such Craft or Mystery be, that the Masters or Wardens of the Crafts and Mysteries of the City, Town, Borough or Village next adjoyning to the same, and the Constable of such City, Borough, Town or Village, shall have power and authority to search in their own Crafts and Mysteries, and in all other Crafts and Mysteries, uttering by way of sale any of the aforesaid Wares, as well within Cities, Boroughs, Towns and Villages of the same Realm of England, and of the Country of Wales, as within the Liberties and Franchise of the same Cities, Boroughs, Towns and Villages, at all times reasonable by the day, at Fairs and Markets, Shops open and Ware-houses, all such manner of Wares, Chaffers and Merchandizes, pertaining to every of their proper Crafts and Mysteries, which shall be made by any Alien Artificer, man or woman, or any other person or persons within the same Realm of England or Wales, or which at any time shall be occupied by any of the said Crafts or Mysteries, in whose hands soever they may be found.

Provided also, that the said Masters, Wardens, and other named in the said Ordinance to be searchers, shall not enter into

into any place exempted by Privilege, Franchise or Custom, to make in the same any search as is aforesaid, but by the oversight of some Officer of every such place so exempt, where any such search shall happen to be made. (This to be in force so long as shall please the King.)

And if the said searchers by the same search do find that such Chaffers, Wares or Merchandizes, or any part thereof, be not pure, lawful, and able Chaffers, Wares or Merchandizes, and duly wrought and made as they ought to be, and that sufficiently proved.

That then it shall be lawful to such searchers, to take and seize all such Chaffers, Wares and Merchandizes, which shall so be found not good, pure, lawful or able, nor well wrought, as a thing forfeit: The one half of the same forfeiture to be paid to the use of our Lord the King, and the other half thereof to such Masters or Wardens which so shall make search and find the same.

Stat 1 Rich, 3. cap. 12.

ITem, It was shewed in the same Parliament by the Artificers of the said Realm of England, as well of the City of London, as of other Cities, Towns, Boroughs and Villages of the same Realm, that is to say, Girdlers, Point-makers, Pinners, Pursers, Glovers, Joyners, Painters, Card-makers, Wiermongers, Weavers, Horners, Bottle-makers and Copper-smiths,

that whereas they were wont in times past to be greatly set awork and occupied in the said Crafts, for the sustenance of themselves, their Wives, Children, Apprentices, and Servants, and many other of the Kings Subjects.

Now so it is, that by Merchant Strangers, Denizens and others, there is brought into these parts from beyond the Seas, to be sold within this Realm of England, as much Wares as may be wrought and made by the Artificers above rehearsed, that by reason thereof the people of strange Countries where the said Wares be made, be greatly occupied and increased, and the said Artificers in this Realm greatly impoverished, and without the Kings grace shewed to them in this behalf, are like to be undone for lack of Occupation.

Our said Sovereign Lord the King considering the premisses, by the Advice and Assent of the Lords Spiritual and Temporal, and at the prayer of his Commons in the said Parliament assembled, and by Authority of the same, hath ordained and provided, That no Merchant Stranger, after the Feast of Easter next coming, shall bring into this Realm of England, to be sold, any manner of Girdles, nor Harness wrought for Girdles, Points, Leather Laces, Purses, Pouches, Pins, Gloves, Knives, Hangers, Taylors Sheers, Scissars, Andirons, Colbards, Tongs, Fire-forks, Gird-

Gridirons, Stock-locks, Keys, Hinges, and Garnets, Spurs, painted Glasses, painted Papers, painted Forcers, painted Images, painted Cloths, beaten Gold or beaten Silver wrought, in papers for Painters, Saddles, Saddle-trees, Horse-harnels, Boots, Bitts, Stirrups, Buckles, Chains, Laten nails with Iron shanks, Turnets, Hanging-Candlesticks, Holy-water-stops, Chafing-dishes, Hanging Lavers, Curtain-rings, Cards for wooll, Roan-Cards, (except Clasps for Garments) Shears, Buckles for Shooes, Broches or Spits, Hawks-bells, Tin and Leaden Spoons, Wier of Laten and Iron, Iron Candlesticks, Grates, Horns for Lanthorns, or any of the said Wares, made and wrought, pertaining to the Crafts above specified, or any of them, upon pain to forfeit all the said Wares so brought into this Realm contrary to this Act, or the value of the same, in whose hands they or any of them shall be found: The one half of such Fines and Forfeitures to be to the King, and the other half to him or them that shall seize or pursue for the same, by Action of Debt, by Writ or Bill at the Common Law, or by Bill or Plaint, after the custom of the City or Town where any such Fines, Forfeitures and Penalties shall hereafter happen to be or fall: And that the Defendant in such Action be not admitted to wage his Law, nor that any Protection or Essoin of the Kings Ser-

vice, shall be allowed in the same for any such Defendant.

Stat. 5 Eliz. cap. 7.

WHereas heretofore the Artificers of this Realm of England, (as well within the City of London, as within other Cities, Towns, and Boroughs of the same Realm) that is to wit, Girdlers, Cutlers, Saddlers, Glovers, Point-makers, and such like Handicrafts-men, have ben in their said Faculties greatly wrought, and greatly set on work as well for sustentation of themselves, their Wives and Families, as for a good education of a great part of Youth of this Realm, in good Art and laudable Exercise, besides the manifold benefits that by means or by reason of their Knowledges, Inventions, and continual Travel, daily and universally came to the whole Estate of the Commonwealth of the said Realm.

Yet notwithstanding so now it is, that by reason of the abundance of Foreign Wares brought into this Realm from the parts beyond the Seas, the said Artificers are not only less occupied, and thereby utterly impoverished, the Youth not trained in the said Sciences and Exercises, and thereby the said Faculties, and the exquisite Knowledges thereof, like in short time within this Realm to decay, but also divers Cities and Towns within this

Realm

Realm of England much thereby impaired, the whole Realm greatly endamaged, and other Countries notably inriched, and the people thereof well set on work, to their Commodities and Livings in the Arts and Sciences aforesaid, and to the great discouragement of skilful Workmen of this Realm, being in very deed nothing inferiour to any Stranger in the Faculties aforesaid.

For reformation whereof, be it enacted by our Sovereign Lady the Quæns Highness, and by the Lords Spiritual and Temporal, and the Commons of this present Parliament assembled, and by the Authority of the same, That no person or persons whatsoever, from or after the Feast of the Nativity of St. John Baptist now next ensuing, shall bring or cause to be brought into this Realm of England, from the parts of beyond the Seas, any Girdles, Harness for Girdles, Rapiers, Daggers, Knives, Hilts, Pommels, Lockets, Chapes, Dagger-Blades, Handles, Scabbards, and Sheaths for Knives, Saddles, Horse-Harness, Stirrups, Bitts, Gloves, Points, Leather Laces or Pins, being ready made, or wrought in any parts beyond the Seas, to be sold, bartered or exchanged within this Realm of England, or Wales; upon pain to forfeit all such Wares so to be brought, contrary to the true meaning of this Act, in whose hands soever they or any of them shall be found, or the very value thereof.

The one half of the Forfeitures to be to our Sovereign Lady the Queens Highness, her Heirs and Successors, and the other moiety thereof to him or them that will seize the same, or sue therefore in any Court of Record of the Queens Majesty, her Heirs and Successors, by Action of Debt, Bill, Plaint, Information or otherwise, where no Wager of Law, Essoin or Protection, shall be to him or them allowed.

Stat. 14 Car. 2. cap. 11. the branches thereof to our purpose are *verbatim* thus.

And it shall be lawful to or for any person or persons, authorized by Writ of Assistance under the Seal of his Majesties Court of Exchequer, to take a Constable, Headborough, or other publick Officer inhabiting near unto the place, and in the day time, to enter and go into any House, Shop, Cellar, Ware-house or Room, or other place; and in case of resistance, to break open Doors, Chests, Trunks, and other Package, there to seize, and from thence to bring any kind of Goods or Merchandize whatsoever Prohibited, and Uncustomed, and to put and secure the same in his Majesties Store-house in the Port next to the place where such seizure shall be made.

And forasmuch as it doth appear by daily experience, That there are great practises and combinations betwæn the Im-

Importers and Owners of Goods and Merchandizes, and the Seizers and Informers, with design and intent to defraud the force of the Law, and his Majesty of his Duties and Customs: Be it enacted by the Authority aforesaid, That no Ship or Ships, Goods, Wares or Merchandizes, shall be seized as forfeited, for or by reason of unlawful Importation or Exportation, into or out of this Kingdom of England, Dominion of Wales, or Port and Town of Berwick, or any the Ports, Members or Creeks thereunto belonging, or for not payment of any Customs or Subsidies now due, or hereafter to be due and payable to his Majesty, but by the person or persons who are or shall be appointed by his Majesty to manage his Customs, or Officers of his Majesties Customs for the time being, or such other person or persons as shall be deputed and authorized thereunto, by Warrant from the Lord Treasurer or Under-Treasurer, or by special Commission from his Majesty under the Great or Privy Seal: And if any seizure shall hereafter be made by any other person or persons whatsoever, for any the causes aforesaid, such seizure shall be void and of none effect, any Statute, Law, Act or Provision to the contrary in any wise notwithstanding.

At the Court at *Whitehall*, *June* 6. 1673.
Preſent,

The Kings moſt Excellent Majeſty.

His Royal Highneſs the Duke of *York*.
Lord Chancellor.
Lord Treaſurer.
Lord Privy Seal.
Duke of *Lauderdale*.
Duke of *Ormond*.
Earl of *Ogle*.
Lord Chamberlain.
Earl of *Bridgewater*.
Earl of *Bathe*.
Earl of *Carliſle*.
Earl of *Craven*.
Earl of *Arlington*.
Earl of *Carbery*.
Vicount *Hallifax*.
Lord *Maynard*.
Lord *Newport*.
Lord *Berkley*.
Lord *Holles*.
Mr. Secretary *Coventry*.
Mr. Chancellor of the Exchequer.
Mr. Chancellor of the Dutchy.
Mr. of the Ordinance.
Sir *Tho. Oſborne*.

Maſter Speaker.

WHereas by the late Addreſs of both Houſes of Parliament, his Majeſty was humbly deſired by his own example to encourage the conſtant wearing of the Manufactures of his own Kingdoms and Dominions, and to diſcountenance ſuch perſons, Men or Women in his Majeſties Court, as ſhould wear any Manufactures made in Forein Countries: and that purſuant hereunto his Majeſty had graciouſly declared, that he would not only do it by his own example, but would diſcountenance all other perſons that ſhould wear Foreign Manufactures: and that his Majeſty

Majeſty had given order to the Lord Treaſurer to direct the Commiſſioners of the Cuſtoms, to cauſe all goods of Forein Manufacture prohibited by Law to be ſeized, at what Port, or on whoſe account ſoever they ſhall be imported into this Kingdom; and that his Lordſhip ſhall grant no Warrant for the releaſe of them. And whereas upon the Petition of the Silk-Weavers of *London*, preſented to his Majeſty in Council, ſetting forth that they have attained to great skill in contriving and making of Silks and Stuffs figured and plain, and that if due encouragement were given to them, and to ſeveral other Manual Trades by prohibiting the Importation of Forein Manufactures, they ſhould increaſe and flouriſh; his Majeſty was pleaſed to declare, and accordingly then gave order to the Maſter of his Robes, that he ſhould not prepare for his Majeſties uſe in his wearing Apparel, any kind of Silks or Stuffs wrought out of his own Dominions, nor any Ribbands, Gloves, Hats, *or other things*, for his wearing, which were manufactured beyond the Seas, unleſs as hereafter excepted: And likewiſe that the Lord Chamberlain of his Majeſties Houſhold ſhould take care and give due order that no perſon or perſons ſhould preſume to come into his Majeſties preſence, wearing any of the things aforeſaid being of Forein Manufacture, nor any other whatever, unleſs as followeth; namely, the Lace commonly called *Point de Venice*, which may be worn by any until the firſt day of *May* next, and no longer; as alſo Linen and Callicoes, and ſuch other wearing things, as by our own Trade are imported from the *Eaſt-Indies*.

To

To the end therefore that theſe his Majeſties Command and Orders may be publickly taken notice of, and the more exactly obeyed, it is this day further ordered by his Majeſty in Council, that the Right Honorable the Lord Treaſurer do renew his Orders to the Commiſſioners of the Cuſtoms, that they direct the ſeizure and confiſcation of *all manner of Forein wearing Manufactures that are prohibited by Law*, and to cauſe his Majeſties part thereof to be publickly burnt, that ſo the Petitioners, his Majeſties Subjects, may find all due encouragement and advantage in the proſecution of their ſeveral Trades and Callings: And that this Order is to be Printed and affixed in all the Ports and Cuſtom-houſes of *England*.

Robert Southwell.

Notwithſtanding all which proviſions made by authority (by reaſon of ſome defects therein) there hath been, and now are manifold abuſes and diſcouragement in this Myſtery of *Cutlery*, that the ſame is much decayed, and like to be utterly loſt; and thereby not only great numbers of his Majeſties Subjects deprived of ſo excellent and exceeding neceſſary way of employment, but the ſafety of this Kingdom much obſtructed, unleſs timely care be taken for procuring remedy therein.

To which purpoſe I humbly offer to the conſideration of thoſe in Authority, whether a Law may be made to this effect, (*viz.*)

Firſt, That all and every perſon whatſoever now uſing or exerciſing, or that ſhall hereafter uſe or exerciſe

exerciſe the Trade or Myſtery of Cutlers within the City of London, and three miles compaſs of the ſame City, having been bound before the Maſter or Wardens of any Corporation, &c, in the City of London, and ſerved Apprentiſhips thereto the ſpace of ſeven years at the leaſt, to be admitted and enjoyned within one month after their uſing or exerciſing the ſaid Trade or Myſtery, to take the freedom of the City of London, and to enter him or themſelves into the Corporation of Cutlers of the ſaid City in the ſame manner, and upon the ſame conditions, as before is mentioned in the like caſe of the Goldſmiths of London.

Secondly, That the Statutes for prohibiting the Forein wrought Manufactures, be ſupplied with this further Authority, (viz.) that at the ſeizing any ſuch prohibited Works or Wares, the ſame to be appraiſed, and only the value thereof (conſidering the ſame as Wares lawful) to be forfeit to the King, and the Seizer; and the Works or Wares to be utterly defaced, broken, and ſpoiled, to prevent their being uſed amongſt us.

Thirdly, That it be now enacted to prohibit Forein wrought blades of Swords, Rapiers, Hangers, and Cimiters, after a certain ſpace of time, as at the end of ſeven years or more, under the like penalties as other prohibited works of the ſaid Myſtery.

And that in the mean time no Sword-blades, Rapier-blades, Hanger-Blades, nor Cimiter-blades, be expoſed to ſale, ſold, exchanged, nor bartered in any place in London, or three miles compaſs of the ſame City, by any Trader therein, unleſs thoſe Blades be firſt brought to Cutlers-Hall in London, and there aſſayed, by the Maſter and Wardens of that Myſtery

or

or their Deputy or either of them, which if good to be by them or either of them marked with a mark (allowed them for that purpoſe) and all defective and unſerviceable blades (ſo brought) to break and ſpoil, and all to be done and returned to the owners in convenient time, upon a ſutable penalty for every ſuch blade expoſed to ſale, ſold, exchanged, or bartered, not tried and marked as aforeſaid.

Fourthly, That no manner of Foreign-wrought blades of Swords, Rapiers, Hangers, or Cimiters be expoſed to ſale, ſold, exchanged, or bartered, in any place (out of the ſaid City, and three miles compaſs) within this Realm, by any Traders therein, unleſs thoſe Blades be firſt Aſſayed by the Maſter and Wardens of the Cutlers and their Deputy, or either of them, in every City, Burrough, and Town (where any Cutlers be dwelling) at a certain place and time to be appointed in each City, Burrough and Town, and if good, to be by them, or either of them marked with their Mark allowed as aforeſaid: And all defective and unſerviceable blades to break and ſpoil upon a ſuitable penalty for every ſuch blade expoſed to ſale, ſold, exchanged or bartered, not tryed and marked as aforeſaid.

Fifthly, That after the ſet time for trying and marking all Forein-wrought Blades aforeſaid already imported, no Forein-wrought Blades of Swords, Rapiers, Hangers, or Cimiters, to be imported during the time limited (for importing the ſame) but only at the City of London, and be brought to Cutlers-Hall to be Aſſayed and Marked as aforeſaid.

Sixthly, That there be a convenient charge impoſed upon all Forein-wrought Blades of Swords, Rapiers, Hangers and Cimiters that are already imported,

ported, and that ſhall be henceforward imported, tried, and Marked as aforeſaid, during the time limited for Importing the ſame. Which charge to be taken and received by the ſaid Maſter and Wardens, or one of them, to the uſe of that Corporation; and to be by them ſet apart for raiſing a Stock for the ſetting up the Manufacture of making the Blades aforeſaid in this Kingdom, and to no other uſe whatſoever: and the government and regulating that Manufacture to be by the ſaid Corporation of Cutlers, and none other.

Seventhly, That the Maſter and Wardens of the Company of Cutlers, or either of them, be impowered to have the view, ſearch, Tryal, and Regulation of all works of or belonging to their Myſtery, in all and every place throughout England, amongſt all perſons whatſoever, making, ſelling, expoſing to ſale, exchanging or bartering the ſame; and to mark the good Wares, and ſeize, brake, and ſpoil all unlawful, falſe or inſufficient Works or Wares belonging to their Trade or Myſtery, and to impoſe ſuch Fine or Fines as may be convenient upon the Offenders.

Eighthly, That all perſons not opening all places in the Shops, and Work-houſes, and Ware-houſes, or not giving free liberty of ſearch, and to execute the Authority of the Maſter and Wardens of the Cutlers, to pay 5 l. for every ſuch offence, half to the King, and half to the Corporation.

Ninthly, That the Maſter and Wardens of the Cutlers, and their Deputy be required to take an Oath at the entrance into their Offices, for their true and faithful executing the ſame, to the beſt of their skill and knowledge, ſo long as they continue therein, not to ſpare any perſon for favour nor affection, nor grieve any for hatred or malice. Tenth-

Tenthly, That no perſon or perſons whatſoever may hereafter make, ſell, expoſe to ſale, exchange or barter within this Realm, any Hilt, Pommel, or other Work made of Braſs or Copper belonging to a Sword, Rapier, Hanger, or Cimiter, upon a ſutable penalty; and all ſuch Works to be broke and utterly defaced.

Eleventhly. That the counterfeiting, or the cauſing to be counterfeited the lawful Mark or Marks of any Corporation of any Manual Trade or Myſtery, or the lawful Mark or Marks of any Maſter-worker of any Manual Trade or Myſtery within this Realm, by any ways or means whatſoever, on any the proper works of the Trade of ſuch perſon or Corporation whoſe Mark or Marks are counterfeited, to be puniſhed with the Pillory, and a fine, according to the merit of the offence.

Some Reaſons humbly offered for the aforeſaid Propoſals, (viz.)

For the firſt, That thoſe perſons exerciſing the Myſtery of Cutlers in and about *London*, are very few of them Members of that Corporation, whereby it frequently happens, that the principal Officers therein have little or no skill to perform the duty of thoſe places, and by conſequence be ſuppoſed very little, or not at all, to correct and prevent the abuſes in the works of that Myſtery: and the perſons exerciſing that Myſtery, and being no Free-men or Members of that Corporation, are not under the Government thereof, and therefore will refuſe to obey thoſe wholeſome Laws and Ordinances as the Corporation ſhall find

find neceſſary to make for the better regulating and government of their Trade.

For the ſecond, That notwithſtanding ſeveral works of the Myſtery of Cutlery Forein wrought are prohibited; yet by reaſon the Seizers are not authorized and enjoyned not only to ſeize, but alſo to deface and utterly deſtroy the ſame; thoſe works are as frequently imported, ſold, and bartered amongſt us as ever. For inſtance,

Suppoſe twenty dozen of Forein wrought Hilts be ſeized according to the Statute 5 *Eliz.* 7. one half thereof is forfeit to the King, and the other half to the Seizer; and when condemned, what will be done with them? they will and muſt be ſold amongſt the Cutlers to pay the King and the Seizer, and ſo will paſs under the name of ſeized and condemned Goods, and by that means are and will be ſecured from being queſtioned any more in like manner by any perſon whatſoever. Now here is that which marrs all; for under the name of thoſe twenty dozen of ſeized and condemned Hilts will a hundred dozen or more of Forein wrought Hilts be brought in by ſtealth, and ſold amongſt us, which all the care and cunning imaginable (as our Laws are) cannot prevent: And thus it is with moſt other prohibited Manufactures, but the totally breaking and ſpoiling the ſame, as aforeſaid, would perfectly cure this miſchief.

For the 3, 4, 5, 7, *and* 8.

1. The Kingdom will then be furniſhed with weapons ſecurely good and ſerviceable: And,

2. It will ſurely be granted that the Corporation of *Cutlers* will be the moſt proper judges of all Wares belonging to their Myſtery, and the King and Kingdom may with confidence rely upon the judgment and integrity of that Corporation, who for their own honour, and good of their Company, will certainly ſee the Kingdom well ſerved: and upon any miſcarriage the King, or any perſon will know where to complain, or have any account of what they deſire.

3. It is notoriouſly known, that for want of this power (of ſearching, trying, and marking the works) occaſions great miſchiefs and deceits in the Kingdom, as well by our own Artiſts, as from abroad, by making and vending falſe wares, and ſuch as upon tryal, are not fit for uſe and ſervice.

4. This liberty increaſes the number of bad Workmen, which are but burthenſome and inconvenient, and deſtroys good ones, who are compell'd, either to afford or ſell their good works at the ſame price as bad, or elſe make as bad as others, or have no Trade: and unleſs a penalty be impoſed for refuſing to open all places in the Shops, Work-houſes, Ware-houſes, and other places where the works of the Cutlers Trade are kept, the authority of ſearching, and the labour and endeavours of the Maſter and Wardens will be in vain; for it is the natural inclination and ſtudy of the Makers and ſellers of falſe works, not only to get knowledge of the time in which the ſearchers will come, but alſo keep and conceal their falſe works in private places under lock and key: and the authority of impoſing a penalty of 5 *l.* in this caſe may be conceived the more reaſon-

reaſonable, it being given to the ſeveral Corporations of Girdlers, Sadlers, Cordwainers, and Curriers by the Statute 1 *Jac.* 21. and by long experience thereof, found very wholeſome, and of ſo excellent uſe, that it continues ſtill in force.

For the ſixth, That the ſetting up and encouraging the Manufacture of Sword-Blades, *&c.* in *England* as aforeſaid, would remedy and prevent theſe inconveniencies following, (*viz.*)

1. That we are neceſſitated to have them from abroad at ſuch prices as they upon conſideration of our neceſſities (or their own ſtock) will put upon them.

2. That we are compell'd to take any Wares of this kind, though never ſo defective.

3. That our own people want employment, and ſo become chargeable to the Kingdom, when otherwiſe they might live well.

4. It appears that when this Manufacture was begun here, and likely to be encouraged, the Merchants from beyond Sea brought in great quantities of untried blades at lower prices than ordinary, which was partly the deſtruction of the work here.

5. It appears that by reaſon we have not the Manufacture here, nor any Officers to try and approve what is imported, (as in other parts beyond the Seas they have) that the worſt and moſt defective Blades of Swords, Rapiers, *&c.* are brought hither.

6. That a good foundation and due encouragement hath not hitherto been made for the ſetting up this Manufacture; when 'tis well known, the Artiſts of this Kingdom did formerly make, and

would be now (with little experience) in the ſame capacity to make as good and ſerviceable of theſe ſorts, as any be in the world; eſpecially here being all conveniencies to that purpoſe, as good as any in Forein parts: Then how are we overſeen to be thus remiſs, and ſo freely to leave the benefit of working the great quantities we uſe, to be wholly poſſeſt by Strangers abroad: And beſides that loſs, may it not be ſuppoſed that we may be in War with all our neighbour Nations; or at leaſt *Zollingen* (the place where they are now chiefly made, may be in our enemies hands, and we (not in condition to ſupply this Kingdom by the Artiſts within us) for want of theſe weapons, be brought to great extremity.

That Forein wrought Sword, Rapier, Hanger, and Cimiter-Blades are not prohibited by the Statute 5 Eliz. 7. *aforecited, take theſe Reaſons,* (viz.)

1. That no particular mention is made of them in that Statute, and in all penal Statutes, the Letter is ſtrictly to be regarded.

2. That Dagger-Blades are therein particularly prohibited, they being then frequently made in *England*, but not the other Blades; therefore thoſe not prohibited.

3. That Sword, Rapier, Hanger, or Cimiter-*Blades* are not comprehended, and ſo not prohibited under that name of *Rapiers*: for the general term of *Rapiers* is mentioned, for that, Hilts, Pommels, *&c* are particularly prohibited, they being excellently well made amongſt us; and thoſe par-

particulars being joyned together, do (in the common acceptation) loſe their particular terms, and are called by the general names of Swords, Rapiers, *&c.* ſo that *Rapiers* are not mentioned for the intent of prohibiting Sword, Rapier, Hanger, Cimiter-*Blades*, but to effectually prohibit Hilts, Pommels, Lockets, Chepes, *&c.* and are therefore mentioned both by their particular and general terms.

4. That if the makers of that Statute had intended that the general term of *Rapiers* ſhould comprehend all the particular parts of that weapon, then ſurely they would not have mentioned the Hilts, Pommels, Lockets, Chepes, *&c.* they being particular parts thereof, as well as the Blades.

5. That the particulars are not comprehended nor prohibited under the general terms of any Wares, take this inſtance in Statute 14 *Car.* 2. *cap.* 13. which forbids the bringing into this Realm any Bone-lace, Cut-work, Imbroideries, Fringe, Band ſtrings, Buttons or Needle-work, made of Thred or Silk, or either of them, in parts beyond the Seas: Now obſerve, the general terms are Bone-lace, *&c.* they may not be imported, but Thred, and Silk, and the reſt of the particulars, of which Bone-lace, *&c.* are made, may (and its very well known to) be freely Imported. Thus all Forein wrought Swords, Rapiers, *&c.* are prohibited under the general term of Rapiers; and all Forein wrought Bone-lace, *&c.* under the general term of Bone-lace, *&c.* but Forein wrought, Sword, Rapier, Hanger, and Cimiter Blades, although poſitive *Works* of the Cut-

lers Trade, and the particular parts of Swords, Rapiers, Hangers, and Cimiters, they being not particularly mentioned, are not prohibited; ſo Thred, Silk, *&c.* although they are poſitive works of the Trades they relate unto, and the material particulars of Bone-lace, *&c.* yet not being particularly mentioned, are not prohibited, but may, and are frequently brought in and ſold amongſt us, and not in the leaſt interrupted as Forein wrought prohibited Wares.

Further to the ſixth, touching the charge upon Forein wrought and Imported Blades.

1. The Corporation have not ſtock to perform that work, it being a great undertaking, will require a great and continued ſum which muſt be mannaged ſo as to anſwer 10 *l. per cent. per ann.* (beſides the charge of the Work) to bear the loſs in bad debts, and other caſualties incident to all Trading.

2. A ſmall impoſition on the particulars may in the whole amount to a conſiderable ſum; upon the ſecurity of which, and the credit of the Corporation, may be raiſed a ſufficient ſtock to immediately ſet up the work.

That it is undeniably beſt and fitteſt, and will be the more proſperous to be mannaged by the Corporation, for theſe reaſons.

Firſt, For that they being skilful in the affair, will know how to direct the mannagement thereof to the beſt advantage, and with leaſt charge, and

and will not be ſubject to be deceived by their Work-men, or ſuch as ſhall be intruſted by them to mannage or over-ſee it.

2. It will not be ſubject to fall into the hands of Executors (which otherwiſe it will be if it come into private hands, which was the deſtruction of this work at *Hounſlow*;) but by being in the Corporation, it will have a continued ſubſiſtance, and be ſupported.

It may be obſerved, that in all Manufactures of this kind, the Engliſh have exceeded other Nations: as for inſtance, in that of the Knife-Blades and Razors which heretofore were brought from beyond Sea; and now there are none made ſo good in any parts of the world as here; and we are able to furniſh all parts: only it may be thus far farther obſerved, that the want of power to view and approve as aforeſaid, hath been, and is, occaſion of ſome of our own Work-men to take the liberty of making deceitful Wares, and by that means do bring ſome diſcredit upon our Manufactures, which by the propoſals will be prevented.

To the ninth, The ſecret tie and obligation of an Oath, upon thoſe Officers, is the only way to reſtrain thoſe ſecret faults which our Laws cannot take cogniſance of.

To the tenth, The making and vending Braſs Hilts is not only againſt the intent of our Laws, but a great injury and diſcouragement to the Artiſts of this Myſtery, by reaſon thoſe Wares (which are brittle and unſerviceable) are frequently ſold inſtead of the good and ſerviceable works, and thereby the employment of the Artiſts

tiſts of good works much impaired, and turns our moſt ingenious Manufacture into a cheat upon the Kingdom.

For the Eleventh, The counterfeiting the Marks is (in Manual Trades) of the moſt evil conſequence imaginable; for it prevents the diſcovering the makers of falſe, inſufficient, and unlawful works, and deſtroys the ſecurity, and prevents the knowledge of good works, thereby diſcourageth the honeſt and curious Artiſts, by falſe, ill-made, inſufficient, and unlawful works paſſing under his name, and for his making and by ſuch means (in ſome caſes) may bring them in danger of the Pillory; and by ſeveral other circumſtances of being undone: and many more evils do attend this wicked action, therefore cannot be too ſeverely puniſhed.

To conclude, The Trade and Myſtery of the Cutlers being of great concern to this Nation, not only for the ſafety thereof, but for the employment of great number of people, therefore ought to have a ſutable eſteem and encouragement amongſt us. Other Corporations (of leſs moment are eſteemed, and by concurrence of the Members in particular, and the people in general) are ſo regulated and encouraged, that the Members thereof become wealthy and honorable.

But where be any of the Cutlers Trade that make any conſiderable proficiency in their Eſtates in compariſon of other Tradeſmen? what is it that makes a Trade flouriſh, but the profit thereof? What I have propoſed and deſigned, is but for a reaſonable advantage; which conſidered, can any perſon ſcruple their aſſiſtance for obtaining

for

for this Corporation an encouraging authority, and to give their Members competent rates for their works.

The Sword is the principal weapon of War, and the Sword in the Kings hand is the emblem of his Authority, *Rom.* 13. 3. although by other inſtruments more men are kild, yet all are ſaid to be ſlain with the Sword.

If thoſe Trades that concern the attiring our bodies, and furniture of our houſes, and other materials of delight, have ſo great incouragement, ſhall the makers and traders in that eminent Manufacture the *Sword*, the principal inſtrument (of War) for keeping all in ſafety, be ſlighted, deſpiſed, and reduced to a contemptable condition?

Can he be accounted a true Engliſh-man, that inſtead of making or being advantage to his own Nation and Countrymen by buying and uſing their works, and encouraging the Artiſts thereof, will undeſervedly ſlight, deſpiſe, contemn, and undervalue them and their works, and buy all, or moſt part of Aliens, both at home and abroad, whoſe works do not in the leaſt exceed the works of our Natives?

'Tis only fancy that makes the difference, but let it not be ſaid of Engliſh-men that their fancies are ſo miſ-guided as to eſteem Foreign works better than they are, or to think Engliſh works to be Forein, when preſented to them by Foreiners hands.

But rather have ſo good opinion of our Natives as to put a true eſteem on Engliſh works in Engliſh hands; eſpecially thoſe of the Cutlers:

they

they being no whit (as I ſaid before) inferior to any Cutlers works in the world: and much better would they be if due encouragement were provided. And aſſuredly if the eſteem of thoſe works be according to their goodneſs and greatneſs of uſe, this Myſtery and Corporation cannot want (if endeavoured for) any Authority that may be truly called neceſſary.

Then will the Members of this Myſtery and Corporation ſtudy, and ſpend their time in contriving and making curious and ſerviceable works, and find out ways to employ many that are in want, and idle about, and run into many evil practiſes.

Now to you of the Corporation and Myſtery, I ſay, rouſe up your ſpirits, and give a ſutable active purſuit and attendance for attaining theſe things; you muſt expect to take pains before profit comes: and if ſome rubs and difficulties happen, you may remember, that many do attend the purſuit of the moſt valuable and profitable atchievements: Remember the chief inſtrument of your Trade, the *Sword*; it is the inſtrument of Victory and Conqueſt: then be your actions in theſe concerns of like merit, in being victorious conquerors of all difficulties that happen in your purſuit of all lawful and reaſonable things that may in probability make your Myſtery and Corporation increaſe in Riches and Honour.

Here

HERE FOLLOWETH
A
Brief and Easie way
BY
TABLES,
To cast up
SILVER
To the Standard of XI. Ounces ij. Peny-weight.
AND
GOLD,
To the Standard of XXII. Carracts.
WITH
Questions wrought by the *Golden-Rule*:
Also by *Decimal Tables*.

Calculated by JOHN REYNOLDS,
Of the *MINT* in the *TOWER*.

London, Printed in the Year, 1678.

Of L. Carracts observe.

24 *Carracts*, is ——— 12 *Ounces* Troy.
1 *Carract*, is divided into ——— 4 *Grains*.
1 *Carract Grain*, is 2 *Penny* weight, 12 *Grains Troy*.
One half of *a Carract Grain*, is 1 *Penny* weight, 6 *Grains Troy*.
1 quarter of a *Carract Grain*, is — 15 *Grains Troy*.

Of OZ. Caracts observe.

24 *Carracts*, is ——— 1 *Ounce Troy*.
1 *Carract*, is divided into ——— 4 *Grains*.
1 *Carract Grain*, is ——— 5 *Grains Troy*.
Half a *Carract Grain*, is 2 *Grains* and a half *Troy*.
One quarter of a *Carract Grain*, is 1 *Grain*, and a quarter *Troy*.

12 *Ounces*, ——— is a *Pound-weight*, Troy.
20 *Penny-weight*, ——— is one *Ounce*.
24 *Grains*, ——— is a *Penny-weight*.
20 *Mites*, ——— is a *Grain*.
24 *Droits*, ——— is a *Mite*.
20 *Periots*, ——— is a *Droit*.
24 *Blanks*, ——— is a *Periot*.

Half

L. wt	Ounc.	D. wt	Grai.	Parts vlites	Parts
1	0	0	12	19	17
2	0	1	1	18	34
3	0	1	14	18	14
4	0	2	3	17	31
5	0	2	16	17	11
6	0	3	5	16	28
7	0	3	18	16	8
8	0	4	7	15	25
9	0	4	20	15	5
10	0	5	9	14	22
11	0	5	22	14	2
20	0	10	19	9	7
30	0	16	5	3	29
40	1	1	14	18	14
45	1	4	7	15	25
50	1	7	0	12	36
60	1	12	10	7	21
70	1	17	20	2	6
80	2	3	5	16	28
90	2	8	15	11	13
100	2	14	1	5	35
200	5	8	2	11	33
300	8	2	3	17	31
400	10	16	5	3	29
500	13	10	6	9	27

	Grai.	Parts Mites	Parts
	1	1	23
	2	3	9
	3	4	32
	4	6	18
	5	8	4
	6	9	27
	7	11	13
	8	12	36
	9	14	22
	10	16	8
	11	17	31

D.t	Gr.	Mit	Par
1	6	1	13
2	12	2	16
5		5	15
7	12	8	4
10		10	30
12	12	13	19
15		16	8
17	12	18	34
d.t	gr.		pt.
1			32
	18		24
	12		16
	6		8
	4		5

A *Penny weight.* *At the* Ounce.

Parts.	Mites.	Grain.
9	36	2
18	36	4
27	9	6
36	12	8
8	16	10
17	19	12
26	2	15
35	5	17
7	9	19
16	12	21
25	16	23

Par	Mit	Gr.
26	2	0
15	5	0
30	10	0
8	16	0
23	1	1
1	7	1
16	12	1
31	17	1
pt.	mi	gr.
6	2	0
23	1	0
3	1	0
20	0	0
13	0	0

d.w	Gr.
1	6
2	12
5	
7	12
10	
12	12
15	
17	12
d.t	gr.
1	
	18
	12
	6
	4

Parts.	Mites.	Grains.	D. wt.	Ounc.	L. wt.
34	18	1	1	0	1
31	17	3	2	0	2
28	16	5	3	0	3
25	15	7	4	0	4
22	14	9	5	0	5
19	13	11	6	0	6
16	12	13	7	0	7
13	11	15	8	0	8
10	10	17	9	0	9
7	9	19	10	0	10
4	8	21	11	0	11
14	18	23	1	1	20
21	17	1	2	1	30
28	16	3	3	1	40
13	15	5	4	1	45
35	5	1	14	2	50
5	15	20	4	3	60
12	4	16	15	3	70
19	13	11	6	4	80
26	2	7	17	4	90
33	11	2	8	5	100
29	3	5	16	10	200
25	15	7	4	16	300
21	7	10	12	21	400
17	19	12	0	27	500

L. wt.	Ounce.	D wt.	Grains	Mites.	Parts.
1	0	1	14	18	14
2	0	3	5	16	28
3	0	4	20	15	5
4	0	6	11	13	19
5	0	8	2	11	33
6	0	9	17	10	10
7	0	11	8	8	24
8	0	12	23	7	1
9	0	14	14	5	15
10	0	16	5	3	29
11	0	17	20	2	6
20	1	12	10	7	21
30	2	8	15	11	13
40	3	4	20	15	5
45	3	12	23	7	1
50	4	1	1	18	34
60	4	17	7	2	26
70	5	13	12	6	18
80	6	9	17	10	10
90	7	5	22	14	2
100	8	2	3	17	31
200	16	4	17	15	25
300	24	6	11	13	19
400	32	8	15	11	13
500	40	10	19	9	7

D wt.	Grains	Mites.	Parts.
0	3	4	32
0	6	9	27
0	9	14	22
0	12	19	17
0	16	4	12
0	19	9	7
0	21	14	2
1	1	18	34
1	5	3	29
1	8	8	24
1	11	13	19

d wt	Gr.	Gr.	Mit	Par
1	6	0	4	2
2	12	0	8	4
5		0	16	8
7	12	1	4	12
10		1	12	16
12	12	2	0	20
15		2	8	24
17	12	2	16	28
d.	gr.		mi	pt.
1			3	9
	18		2	16
	12		1	23
	6		0	30
	4		0	20

L. wt.	Ounc.	D. wt	Gral.	Mites	Perts
1	0	2	3	17	31
2	0	4	7	15	25
3	0	6	11	13	19
4	0	8	15	11	13
5	0	10	19	9	7
6	0	12	23	7	1
7	0	15	3	4	32
8	0	17	7	2	25
9	0	19	11	0	20
10	1	1	14	18	14
11	1	3	18	16	8
20	2	3	5	16	28
30	3	4	20	15	5
40	4	6	11	13	19
45	4	17	7	2	26
50	5	8	2	11	33
60	6	9	17	10	10
70	7	11	8	8	24
80	8	12	23	7	1
90	9	14	14	5	15
100	10	16	5	3	29
200	21	12	10	7	21
300	32	8	15	11	13
400	43	4	20	15	5
500	54	1	1	18	34

D. wt	Gra.	Mites	Parts
0	4	6	18
0	8	12	36
0	12	19	17
0	17	5	35
0	21	12	16
1	1	18	34
1	6	5	15
1	10	11	33
1	14	18	14
1	19	4	32
1	23	11	13

D. wt	Gr.	Mit	Par
1	0	5	15
2	0	10	30
5	1	1	23
7	1	12	16
10	2	3	9
12	2	14	2
15	3	4	32
17	3	15	25

d. wt	gr.	mi	pt.
1	0	4	12
	18	3	9
	12	2	6
		1	3

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	2	16	17	11
2	0	5	9	14	22
3	0	8	2	11	33
4	0	10	19	9	7
5	0	13	12	6	18
6	0	16	5	3	29
7	0	18	22	1	3
8	1	1	14	18	14
9	1	4	7	15	25
10	1	7	0	12	36
11	1	9	17	10	10
20	2	14	1	5	35
30	4	1	1	18	34
40	5	8	2	11	33
45	6	1	14	18	14
50	6	15	3	4	32
60	8	2	3	17	31
70	9	9	4	10	30
80	10	16	5	3	29
90	12	3	5	16	28
100	13	10	6	9	27
200	27	0	12	19	17
300	40	10	19	9	7
400	54	1	1	18	34
500	67	11	8	8	24

D. w.	Grains.	Mites.	Parts.
0	5	8	4
0	10	16	8
0	16	4	12
0	21	12	16
1	3	0	20
1	8	8	24
1	13	16	28
1	19	4	32
2	0	12	36
2	6	1	3
2	11	9	7

D.	Gr.	Gr.	Mit.	Par.
1	6	0	6	28
2	12	0	13	19
5		1	7	1
7	12	2	0	20
10		2	14	2
12	12	3	7	21
15		4	1	3
17	12	4	14	22
d.	gr.		mi	pt.
1	0		5	15
	18		4	2
	12		2	26
	6		1	13

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	3	5	16	28
2	0	6	11	13	19
3	0	9	17	10	10
4	0	12	23	7	1
5	0	16	5	3	29
6	0	19	11	0	20
7	1	2	16	17	11
8	1	5	22	14	2
9	1	9	4	10	30
10	1	12	10	7	21
11	1	15	16	4	12
20	3	4	20	15	5
30	4	17	7	2	26
40	6	9	17	10	10
45	7	5	23	14	2
50	8	2	3	17	31
60	9	14	14	5	15
70	11	7	0	12	36
80	12	19	11	0	20
90	14	11	21	8	4
100	16	4	7	15	25
200	32	8	15	11	13
300	48	12	23	7	1
400	64	17	7	2	26
500	81	1	14	18	14

D. wt.	Grains.	Mites.	Parts.
0	6	9	27
0	12	19	17
0	19	9	7
1	1	18	34
1	8	8	24
1	14	18	14
1	21	8	4
2	3	17	31
2	10	7	21
2	16	17	11
2	23	7	1

d.w	Gr.
1	6
2	12
5	
7	12
10	
12	12
15	
17	12
d.	gr.
1	
	18
	12
	6
	4

Gr.	Mit	Par
0	8	48
0	16	
1	12	16
2	8	24
3	4	32
4	1	3
4	17	11
5	13	19
	mi	pt.
	6	18
	4	32
	3	9
	1	23
	1	3

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	3	18	16	8
2	0	7	13	12	16
3	0	11	8	8	24
4	0	15	3	4	32
5	0	18	22	1	3
6	1	2	16	17	11
7	1	6	11	13	19
8	1	10	6	9	27
9	1	14	1	5	35
10	1	17	20	2	6
11	2	1	14	18	14
20	3	15	16	4	12
30	5	13	12	6	18
40	7	11	8	8	24
45	8	10	6	9	27
50	9	9	4	10	30
60	11	7	0	12	36
70	13	4	20	15	5
80	15	2	16	17	11
90	17	0	12	19	17
100	18	18	9	1	23
200	37	16	18	3	9
300	56	15	3	4	32
400	75	13	12	6	18
500	94	11	21	8	4

D. wt.	Grains.	Mites.	Parts.
0	7	11	13
0	15	2	26
0	22	14	2
1	6	5	15
1	13	16	28
1	21	8	4
2	4	19	17
2	12	10	30
2	20	2	6
3	3	13	19
3	11	4	32

d. w	Gr.	gr.
1	6	
2	12	
5		
7	12	
10		
12	12	
15		
17	12	
dr.	gr.	
1		
	18	
	12	
	6	

Gr.	Mit	Par
0	9	17
0	18	34
1	17	31
2	16	28
3	15	25
4	14	22
5	13	19
6	12	16
gr.	mi	pt.
0	7	21
0	5	25
0	3	29
0	1	33

Parts.	Mites.	Grains.	D. wt.
36	12	8	0
35	5	17	0
34	18	1	1
33	11	10	1
32	4	19	1
31	17	3	2
30	10	12	2
29	3	21	2
28	16	5	3
27	9	14	3
26	2	23	3

Parts.	Mites.	Grains.	D. wt.	Ounce.
25	15	7	4	0
13	11	15	8	0
1	7	23	12	0
26	2	7	17	0
14	18	15	1	1
2	14	23	5	1
27	9	6	10	1
15	5	14	14	1
3	1	22	18	1
28	16	5	3	2
16	12	13	7	2
29	13	21	11	2
10	7	12	9	3
23	4	20	12	3
7	15	4	16	3
30	10	12	19	4
1	7	23	23	4
15	5	14	14	5
29	3	5	16	5
20	0	11	19	6
11	14	2	2	7
2	11	22	5	7
21	7	13	8	8
12	4	23	11	8
3	1	14	14	9
22	17	5	17	9
13	14	15	20	10
4	10	24	23	10
31	17	6	2	11
23	7	15	5	12
5	3	15	8	12
32	0	8	11	13
24	6	17	14	13
14	3	7	17	14
6	0	16	20	14
24	17	7	2	15
15	13	18	5	15
33	10	9	8	16
25	6	19	11	16
16	3	9	14	17
34	0	10	17	17
26	16	20	20	18
17	13	11	23	18
8	10	21	2	19
35	7	12	5	19
27	3	22	8	20
18	0	13	11	20
36	17	13	14	21
28	14	14	17	21
19	11	14	20	22
37	7	15	23	22
29	4	15	2	23
20	1	16	5	23
38	18	16	8	24
30	15	16	11	24
21	12	17	14	25
39	8	17	17	25
31	5	18	20	26
22	2	18	23	26
40	19	18	2	27
32	16	19	5	27
23	13	19	8	28
41	9	20	11	28
33	6	20	14	29
24	3	21	17	29
42	0	21	20	30
34	17	21	23	30
25	14	22	2	31
43	10	22	5	31
35	7	23	8	32
26	4	23	11	32
44	1	24	14	33
36	18	24	17	33
27	15	24	20	34
45	11	24	23	34
37	8	24	2	35
28	5	24	5	35
46	2	24	8	36
38	19	24	11	36
29	16	24	14	37
47	13	24	17	37
39	9	24	20	38
30	6	24	23	38
48	3	24	2	39
40	0	24	5	39
31	17	24	8	40
49	14	24	11	40
41	10	24	14	41
32	7	24	17	41
50	4	24	20	42
42	1	24	23	42
33	18	24	2	43
51	15	24	5	43
43	11	24	8	44
34	8	24	11	44
52	5	24	14	45
44	2	24	17	45
35	19	24	20	46
53	16	24	23	46
45	12	24	2	47
36	9	24	5	47
54	6	24	8	48
46	3	24	11	48
37	0	24	14	49
55	17	24	17	49
47	13	24	20	50
38	10	24	23	50
56	7	24	2	51
48	4	24	5	51
39	1	24	8	52
57	18	24	11	52
49	14	24	14	53
40	11	24	17	53
58	8	24	20	54
50	5	24	23	54
41	2	24	2	55
59	19	24	5	55
51	15	24	8	56
42	12	24	11	56
60	9	24	14	57
52	6	24	17	57
43	3	24	20	58
61	0	24	23	58
53	17	24	2	59
44	14	24	5	59
62	10	24	8	60
54	7	24	11	60
45	4	24	14	61
63	1	24	17	61
55	18	24	20	62
46	15	24	23	62
64	11	24	2	63
56	8	24	5	63
47	5	24	8	64
65	2	24	11	64
57	19	24	14	65
48	16	24	17	65
66	13	24	20	66
58	9	24	23	66
49	6	24	2	67
67	3	24	5	67
59	0	24	8	68
50	17	24	11	68
68	14	24	14	69
60	10	24	17	69
51	7	24	20	70
69	4	24	23	70
61	1	24	2	71
52	18	24	5	71
70	15	24	8	72
62	11	24	11	72
53	8	24	14	73
71	5	24	17	73
63	2	24	20	74
54	19	24	23	74
72	16	24	2	75
64	13	24	5	75
55	9	24	8	76
73	6	24	11	76
65	3	24	14	77
56	0	24	17	77
74	17	24	20	78
66	14	24	23	78
57	10	24	2	79
75	7	24	5	79
67	4	24	8	80
58	1	24	11	80
76	18	24	14	81
68	15	24	17	81
59	11	24	20	82
77	8	24	23	82
69	5	24	2	83
60	2	24	5	83
78	19	24	8	84
70	16	24	11	84
61	13	24	14	85
79	9	24	17	85
71	6	24	20	86
62	3	24	23	86
80	0	24	2	87
72	17	24	5	87
63	14	24	8	88
81	10	24	11	88
73	7	24	14	89
64	4	24	17	89
82	1	24	20	90
74	18	24	23	90
65	15	24	2	91
83	11	24	5	91
75	8	24	8	92
66	5	24	11	92
84	2	24	14	93
76	19	24	17	93
67	16	24	20	94
85	13	24	23	94
77	9	24	2	95
68	6	24	5	95
86	3	24	8	96
78	0	24	11	96
69	17	24	14	97
87	14	24	17	97
79	10	24	20	98
70	7	24	23	98
88	4	24	2	99
80	1	24	5	99
71	18	24	8	100
89	15	24	11	100
81	11	24	14	101
72	8	24	17	101
90	5	24	20	102
82	2	24	23	102
73	19	24	2	103
91	16	24	5	103
83	13	24	8	104
74	9	24	11	104
92	6	24	14	105
84	3	24	17	105
75	0	24	20	106
93	17	24	23	106
85	14	24	2	107
76	10	24	5	107
94	7	24	8	108
86	4	24	11	108
77	1	24	14	109
95	18	24	17	109
87	15	24	20	110
78	11	24	23	110
96	8	24	2	111
88	5	24	5	111
79	2	24	8	112
97	19	24	11	112
89	16	24	14	113
80	13	24	17	113
98	9	24	20	114
90	6	24	23	114
81	3	24	2	115
99	0	24	5	115
91	17	24	8	116
82	14	24	11	116
100	10	24	14	117
92	7	24	17	117
83	4	24	20	118
101	1	24	23	118
93	18	24	2	119
84	15	24	5	119
102	11	24	8	120
94	8	24	11	120
85	5	24	14	121
103	2	24	17	121
95	19	24	20	122
86	16	24	23	122
104	13	24	2	123
96	9	24	5	123
87	6	24	8	124
105	3	24	11	124
97	0	24	14	125
88	17	24	17	125
106	14	24	20	126
98	10	24	23	126
89	7	24	2	127
107	4	24	5	127
99	1	24	8	128
90	18	24	11	128
108	15	24	14	129
100	11	24	17	129
91	8	24	20	130
109	5	24	23	130
101	2	24	2	131
92	19	24	5	131
110	16	24	8	132
102	13	24	11	132
93	9	24	14	133
111	6	24	17	133
103	3	24	20	134
94	0	24	23	134
112	17	24	2	135
104	14	24	5	135
95	10	24	8	136
113	7	24	11	136
105	4	24	14	137
96	1	24	17	137
114	18	24	20	138
106	15	24	23	138
97	11	24	2	139
115	8	24	5	139
107	5	24	8	140
98	2	24	11	140
116	19	24	14	141
108	16	24	17	141
99	13	24	20	142
117	9	24	23	142
109	6	24	2	143
100	3	24	5	143
118	0	24	8	144
110	17	24	11	144
101	14	24	14	145
119	10	24	17	145
111	7	24	20	146
102	4	24	23	146
120	1	24	2	147
112	18	24	5	147
103	15	24	8	148
121	11	24	11	148
113	8	24	14	149
104	5	24	17	149
122	2	24	20	150
114	19	24	23	150
105	16	24	2	151
123	13	24	5	151
115	9	24	8	152
106	6	24	11	152
124	3	24	14	153
116	0	24	17	153
107	17	24	20	154
125	14	24	23	154
117	10	24	2	155
108	7	24	5	155
126	4	24	8	156
118	1	24	11	156
109	18	24	14	157
127	15	24	17	157
119	11	24	20	158
110	8	24	23	158
128	5	24	2	159
120	2	24	5	159
111	19	24	8	160
129	16	24	11	160
121	13	24	14	161
112	9	24	17	161
130	6	24	20	162
122	3	24	23	162
113	0	24	2	163
131	17	24	5	163
123	14	24	8	164
114	10	24	11	164
132	7	24	14	165
124	4	24	17	165
115	1	24	20	166
133	18	24	23	166
125	15	24	2	167
116	11	24	5	167
134	8	24	8	168
126	5	24	11	168
117	2	24	14	169
135	19	24	17	169
127	16	24	20	170
118	13	24	23	170
136	9	24	2	171
128	6	24	5	171
119	3	24	8	172
137	0	24	11	172
129	17	24	14	173
120	14	24	17	173
138	10	24	20	174
130	7	24	23	174
121	4	24	2	175
139	1	24	5	175
131	18	24	8	176
122	15	24	11	176
140	11	24	14	177
132	8	24	17	177
123	5	24	20	178
141	2	24	23	178
133	19	24	2	179
124	16	24	5	179
142	13	24	8	180
134	9	24	11	180
125	6	24	14	181
143	3	24	17	181
135	0	24	20	182
126	17	24	23	182
144	14	24	2	183
136	10	24	5	183
127	7	24	8	184
145	4	24	11	184
137	1	24	14	185
128	18	24	17	185
146	15	24	20	186
138	11	24	23	186
129	8	24	2	187
147	5	24	5	187
139	2	24	8	188
130	19	24	11	188
148	16	24	14	189
140	13	24	17	189
131	9	24	20	190
149	6	24	23	190
141	3	24	2	191
132	0	24	5	191
150	17	24	8	192
142	14	24	11	192
133	10	24	14	193
151	7	24	17	193
143	4	24	20	194
134	1	24	23	194
152	18	24	2	195
144	15	24	5	195
135	11	24	8	196
153	8	24	11	196
145	5	24	14	197
136	2	24	17	197
154	19	24	20	198
146	16	24	23	198
137	13	24	2	199
155	9	24	5	199
147	6	24	8	200
138	3	24	11	200
156	0	24	14	201
148	17	24	17	201
139	14	24	20	202
157	10	24	23	202
149	7	24	2	203
140	4	24	5	203
158	1	24	8	204
150	18	24	11	204
141	15	24	14	205
159	11	24	17	205
151	8	24	20	206
142	5	24	23	206
160	2	24	2	207
152	19	24	5	207
143	16	24	8	208
161	13	24	11	208
153	9	24	14	209
144	6	24	17	209
162	3	24	20	210
154	0	24	23	210
145	17	24	2	211
163	14	24	5	211
155	10	24	8	212
146	7	24	11	212
164	4	24	14	213
156	1	24	17	213
147	18	24	20	214
165	15	24	23	214
157	11	24	2	215
148	8	24	5	215
166	5	24	8	216
158	2	24	11	216
149	19	24	14	217
167	16	24	17	217
159	13	24	20	218
150	9	24	23	218
168	6	24	2	219
160	3	24	5	219
151	0	24	8	220
169	17	24	11	220
161	14	24	14	221
152	10	24	17	221
170	7	24	20	222
162	4	24	23	222
153	1	24	2	223
171	18	24	5	223
163	15	24	8	224
154	11	24	11	224
172	8	24	14	225
164	5	24	17	225
155	2	24	20	226
173	19	24	23	226
165	16	24	2	227
156	13	24	5	227
174	9	24	8	228
166	6	24	11	228
157	3	24	14	229
175	0	24	17	229
167	17	24	20	230
158	14	24	23	230
176	10	24	2	231
168	7	24	5	231
159	4	24	8	232
177	1	24	11	232
169	18	24	14	233
160	15	24	17	233
178	11	24	20	234
170	8	24	23	234
161	5	24	2	235
179	2	24	5	235
171	19	24	8	236
162	16	24	11	236
180	13	24	14	237
172	9	24	17	237
163	6	24	20	238
181	3	24	23	238
173	0	24	2	239
164	17	24	5	239
182	14	24	8	240
174	10	24	11	240
165	7	24	14	241
183	4	24	17	241
175	1	24	20	242
166	18	24	23	242
184	15	24	2	243
176	11	24	5	243
167	8	24	8	244
185	5	24	11	244
177	2	24	14	245
168	19	24	17	245
186	16	24	20	246
178	13	24	23	246
169	9	24	2	247
187	6	24	5	247
179	3	24	8	248
170	0	24	11	248
188	17	24	14	249
180	14	24	17	249
171	10	24	20	250
189	7	24	23	250
181	4	24	2	251
172	1	24	5	251
190	18	24	8	252
182	15	24	11	252
173	11	24	14	253
191	8	24	17	253
183	5	24	20	254
174	2	24	23	254
192	19	24	2	255
184	16	24	5	255
175	13	24	8	256
193	9	24	11	256
185	6	24	14	257
176	3	24	17	257
194	0	24	20	258
186	17	24	23	258
177	14	24	2	259
195	10	24	5	259
187	7	24	8	260
178	4	24	11	260
196	1	24	14	261
188	18	24	17	261
179	15	24	20	262
197	11	24	23	262
189	8	24	2	263
180	5	24	5	263
198	2	24	8	264
190	19	24	11	264
181	16	24	14	265
199	13	24	17	265
191	9	24	20	266
182	6	24	23	266
200	3	24	2	267
192	0	24	5	267
183	17	24	8	268
201	14	24	11	268
193	10	24	14	269
184	7	24	17	269
202	4	24	20	270
194	1	24	23	270
185	18	24	2	271
203	15	24	5	271
195	11	24	8	272
186	8	24	11	272
204	5	24	14	273
196	2	24	17	273
187	19	24	20	274
205	16	24	23	274
197	13	24	2	275
188	9	24	5	275
206	6	24	8	276
198	3	24	11	276
189	0	24	14	277
207	17	24	17	277
199	14	24	20	278
190	10	24	23	278
208	7	24	2	279
200	4	24	5	279
191	1	24	8	280
209	18	24	11	280
201	15	24	14	281
192	11	24	17	281
210	8	24	20	282
202	5	24	23	282
193	2	24	2	283
211	19	24	5	283
203	16	24	8	284
194	13	24	11	284
212	9	24	14	285
204	6	24	17	285
195	3	24	20	286
213	0	24	23	286
205	17	24	2	287
196	14	24	5	287
214	10	24	8	288
206	7	24	11	288
197	4	24	14	289
215	1	24	17	289
207	18	24	20	290
198	15	24	23	290
216	11	24	2	291
208	8	24	5	291
199	5	24	8	292
217	2	24	11	292
209	19	24	14	293
200	16	24	17	293
218	13	24	20	294
210	9	24	23	294
201	6	24	2	295
219	3	24	5	295
211	0	24	8	296
202	17	24	11	296
220	14	24	14	297
212	10	24	17	297
203	7	24	20	298
221	4	24	23	298
213	1	24	2	299
204	18	24	5	299
222	15	24	8	300
214	11	24	11	300
205	8	24	14	301
223	5	24	17	301
215	2	24	20	302
206	19	24	23	302
224	16	24	2	303
216	13	24	5	303
207	9	24	8	304
225	6	24	11	304
217	3	24	14	305
208	0	24	17	305
226	17	24	20	306
218	14	24	23	306
209	10	24	2	307
227	7	24	5	307
219	4	24	8	308
210	1	24	11	308
228	18	24	14	309
220	15	24	17	309
211	11	24	20	310
229	8	24	23	310
221	5	24	2	311
212	2	24	5	311
230	19	24	8	312
222	16	24	11	312
213	13	24	14	313
231	9	24	17	313
223	6	24	20	314
214	3	24	23	314
232	0	24	2	315
224	17	24	5	315
215	14	24	8	316
233	10	24	11	316
225	7	24	14	317
216	4	24	17	317
234	1	24	20	318
226	18	24	23	318
217	15	24	2	319
235	11	24	5	319
227	8	24	8	320
218	5	24	11	320
236	2	24	14	321
228	19	24	17	321
219	16	24	20	322
237	13	24	23	322
229	9	24	2	323
220	6	24	5	323
238	3	24	8	324
230	0	24	11	324
221	17	24	14	325
239	14	24	17	325
231	10	24	20	326
222	7	24	23	326
240	4	24	2	327
232	1	24	5	327
223	18	24	8	328
241	15	24	11	328
233	11	24	14	329
224	8	24	17	329
242	5	24	20	330
234	2	24	23	330
225	19	24	2	331
243	16	24	5	331
235	13	24	8	332
226	9	24	11	332
244	6	24	14	333
236	3	24	17	333
227	0	24	20	334
245	17	24	23	334
237	14	24	2	335
228	10	24	5	335
246	7	24	8	336
238	4	24	11	336
229	1	24	14	337
247	18	24	17	337
239	15	24	20	338
230	11	24	23	338
248	8	24	2	339
240	5	24	5	339
231	2	24	8	340
249	19	24	11	340
241	16	24	14	341
232	13	24	17	341
250	9	24	20	342
242	6	24	23	342
233	3	24	2	343
251	0	24	5	343
243	17	24	8	344
234	14	24	11	344
252	10	24	14	345
244	7	24	17	345
235	4	24	20	346
253	1	24	23	346
245	18	24	2	347
236	15	24	5	347
254	11	24	8	348
246	8	24	11	348
237	5	24	14	349
255	2	24	17	349
247	19	24	20	350
238	16	24	23	350
256	13	24	2	351
248	9	24	5	351
239	6	24	8	352
257	3	24	11	352
249	0	24	14	353
240	17	24	17	353

L. wt.	Ounce.	D. wt	Grains	Mites.	Parts.
1	0	4	20	15	5
2	0	9	17	10	10
3	0	14	14	5	15
4	0	19	11	0	20
5	1	4	7	15	25
6	1	9	4	10	30
7	1	14	1	5	35
8	1	18	22	1	3
9	2	3	18	16	8
10	2	8	15	11	13
11	2	13	12	6	18
20	4	17	7	2	26
30	7	5	22	14	2
40	9	14	14	5	15
45	10	18	22	1	3
50	12	3	5	10	28
60	14	11	21	8	4
70	17	0	12	19	17
80	19	9	4	10	30
90	21	17	20	2	6
100	24	6	11	13	19
200	48	12	23	7	1
300	72	9	11	0	20
400	97	5	22	14	2
500	121	12	10	7	21

	D. wt.	Grains.	Mites.	Parts.
	0	9	14	22
	0	19	9	7
	1	5	3	29
	1	14	18	14
	2	0	12	36
	2	10	7	21
	2	20	2	6
	3	5	16	28
	3	15	11	13
	4	1	5	35
	4	11	0	20

d. w	Gr.		Gr.	Mit	Par
1	6		0	12	6
2	12		1	4	12
5			2	8	24
7	12		3	12	36
10			4	17	11
12	12		6	1	23
15			7	5	35
17	12		8	10	10
d.	gr.			mi	pt.
1				9	27
	18			7	11
	12			4	32
	6			2	16
	4			1	23

Parts.	Mites.	Grains.	D. wt.
8	16	10	0
16	12	21	0
24	8	8	1
32	4	19	1
3	1	6	2
11	17	16	2
19	13	3	3
27	9	14	3
35	5	1	4
6	2	12	4
14	18	22	4

Parts.	Mites.	Grains.	D. wt.	Ounce.	L. wt.
22	14	9	5	0	1
7	9	9	10	0	2
29	3	5	16	0	3
14	18	14	1	1	4
36	12	0	7	1	5
21	7	10	12	1	6
6	2	20	17	1	7
28	16	5	3	2	8
13	11	15	8	2	9
35	5	1	14	2	10
20	0	11	19	2	11
33	11	2	8	5	20
31	17	3	2	8	30
29	3	5	16	10	40
28	16	5	3	12	45
27	9	6	10	13	50
25	15	7	4	16	60
23	1	9	18	18	70
21	7	10	12	21	80
19	13	11	6	24	90
17	19	12	0	27	100
34	19	1	1	54	200
14	19	1	1	81	300
31	19	2	2	108	400
11	19	2	2	135	500

d.w	Gr.	gr.	d.t	gr.
1	6			
2	12			
5				
7	12			
10				
12	12			
15				
17	12			
			1	
				18
				12
				6

Par	Mit	Gr.	gr.	mi	pt.
19	13	0			
1	7	1			
2	14	2			
3	1	4			
4	8	5			
5	15	6			
6	2	8			
7	9	9			
			0	10	30
			0	8	4
			0	5	15
			0	2	26

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	5	22	14	2
2	0	11	21	8	4
3	0	17	20	2	6
4	1	3	18	16	8
5	1	9	17	10	10
6	1	15	16	4	12
7	2	1	14	18	14
8	2	7	13	12	16
9	2	13	12	6	18
10	2	19	11	0	20
11	3	5	9	14	22
20	5	18	22	1	3
30	8	18	9	1	23
40	11	17	20	2	6
45	13	7	13	12	16
50	14	17	7	2	26
60	17	16	18	3	9
70	20	16	5	3	29
80	23	15	16	4	12
90	26	15	3	4	32
100	29	14	14	5	15
200	59	9	4	10	30
300	89	3	18	16	8
400	118	18	9	1	23
500	148	12	23	7	1

D. wt.	Grains.	Mites.	Parts.
0	11	17	31
0	23	15	25
1	11	13	19
1	23	11	13
2	11	9	7
2	23	7	1
3	11	4	32
3	23	2	26
4	11	0	20
4	22	18	14
5	10	16	8

d. w	Gr.	Gr.	Mit	Par
1	6	0	14	32
2	12	1	9	27
5		2	19	17
7	12	4	9	7
10		5	18	34
12	12	7	8	24
15		8	18	14
17	12	10	8	4
d. t	gr.	gr.	mi	pt.
1		0	11	33
	18	0	8	34
	12	0	5	35
	6	0	2	36

Six-penny weight. *At the* Ounce.

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	6	11	13	19
2	0	12	23	7	1
3	0	19	11	0	20
4	1	5	22	14	2
5	1	12	10	7	21
6	1	18	22	1	3
7	2	5	9	14	22
8	2	11	21	8	4
9	2	18	9	1	23
10	3	4	20	15	5
11	3	11	8	8	24
20	6	9	17	10	10
30	9	14	14	5	15
40	12	19	11	0	20
45	14	11	21	8	4
50	16	4	7	5	25
60	19	9	4	16	30
70	22	14	1	5	35
80	25	18	22	1	3
90	29	3	18	16	8
100	32	8	15	11	13
200	64	17	7	2	26
300	97	5	22	14	2
400	129	14	14	5	15
500	162	3	5	16	21

	D. wt.	Grains.	Mites.	Parts.
	0	12	19	17
	1	1	18	34
	1	14	18	14
	2	3	17	31
	2	16	17	11
	3	5	16	28
	3	18	16	8
	4	7	15	25
	4	20	15	5
	5	9	14	22
	5	22	14	2

	d.w.	Gr.		Gr.	Mit.	Par.
	1	6		0	16	8
	2	12		1	12	16
	5			3	4	32
	7	12		4	17	11
	10			6	9	27
	12	12		8	2	6
	15			9	14	22
	17	12		11	7	1

	d.w.	gr.			mi.	t
	1				12	36
		18			9	27
		12			6	18
		6			3	9

Six-penny weight and a half. *At the* Ounce.

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	7	0	12	36
2	0	14	1	5	35
3	1	1	1	18	34
4	1	8	2	11	33
5	1	15	3	4	32
6	2	2	3	17	31
7	2	9	4	10	30
8	2	16	5	3	29
9	3	3	5	16	28
10	3	10	6	9	27
11	3	17	7	2	26
20	7	0	12	19	17
30	10	10	19	9	7
40	14	1	1	18	34
45	15	16	5	3	29
50	17	11	8	8	24
60	21	1	14	18	14
70	24	11	21	8	4
80	28	2	3	17	31
90	31	12	10	7	21
100	35	2	16	17	11
200	70	5	9	14	22
300	105	8	2	11	33
400	140	10	19	9	7
500	175	13	12	6	18

D. wt.	Grains.	Mites.	Parts.
0	14	1	36
1	1	2	3
1	18	3	9
2	8	4	12
2	22	5	15
3	12	6	18
4	2	7	21
4	16	8	24
5	6	9	27
5	20	10	30
6	10	11	33

d.w	Gr.		Gr.	Mit	Par
1	6		0	17	21
2	12		1	15	5
5			3	10	10
7	12		5	5	15
10			7	0	20
12	12		8	15	25
15			10	10	30
17	12		12	5	35
dr.	gr.			mi	pt.
1				14	2
	18			10	20
	12			7	1
	6			3	19
	4			2	12

L. Wt.	Ounce.	D. Wt.	Grains.	Mites.	Parts.
1	0 0 1	7	13	12	16
2	0 0 2	15	3	4	32
3	0 0 3	2	16	17	11
4	0 1	10	6	9	27
5	0 1 1	17	20	2	6
6	0 2	5	9	14	22
7	0 2 2	12	23	7	1
8	0 3	0	12	19	17
9	0 3 3	8	2	11	33
10	0 4	15	16	4	12
11	0 4 4	3	5	16	28
20	0 7	11	8	8	24
30	0 11	7	0	12	36
40	0 15	2	16	17	11
45	0 17	0	12	19	17
50	0 18	18	9	1	23
60	0 22	14	1	5	35
70	0 26	9	17	10	10
80	0 30	5	9	14	22
90	0 34	1	1	18	34
100	0 37	16	18	3	9
200	0 75	13	12	6	18
300	0 113	10	6	9	27
400	0 151	7	0	12	36
500	0 189	3	18	16	8

D. wt.	Grains.	Mites.	Parts.
0	15	2	26
1	6	5	15
1	21	8	4
2	12	10	30
3	3	13	19
3	18	16	8
4	9	18	34
5	1	1	23
5	16	4	12
6	7	7	1
6	22	9	27

d. w	Gr.
1	6
2	12
5	
7	12
10	
12	12
15	
17	12

dt.	gr.
1	
	18
	12
	6

Gr.	Mi.	Part
0	18	34
1	17	31
3	15	25
5	13	19
7	11	13
9	9	7
11	7	1
13	4	32

gr.	mi	pt.
0	15	5
0	11	13
0	7	21
0	3	29

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	8	2	11	33
2	0	16	5	3	29
3	1	4	7	15	25
4	1	12	10	7	21
5	2	0	12	19	17
6	2	8	15	11	13
7	2	16	18	3	9
8	3	4	20	15	5
9	3	12	23	7	1
10	4	1	1	18	34
11	4	9	4	10	30
20	8	2	3	7	31
30	12	3	5	16	28
40	16	4	7	15	25
45	18	4	20	15	5
50	20	5	9	14	22
60	24	6	11	13	19
70	28	7	13	12	16
80	32	8	15	11	13
90	36	9	17	10	10
100	40	10	19	9	7
200	81	1	14	18	14
300	121	12	10	7	21
400	162	3	5	16	28
500	202	14	1	5	35

D. wt.	Grains.	Mites.	Parts.
0	16	4	12
1	8	8	24
2	0	12	36
2	16	17	11
3	9	1	23
4	1	5	35
4	17	10	10
5	9	14	22
6	1	18	34
6	18	3	9
7	10	7	21

pwt.	Gr.	Gr.	Mit	Par
1	6	1	0	10
2	12	2	0	20
5		4	1	3
7	12	6	1	23
10		8	2	6
12	12	10	2	26
15		12	3	9
17	12	14	3	29
dr.	gr.		mi	pt.
1			16	8
	18		12	6
	12		8	4
	6		4	2

Eight-penny weight. *At the* Ounce.

Parts.	Mites.	Grains.	D. wt.
35	5	17	0
33	11	10	1
31	17	3	2
29	3	21	2
27	9	14	3
25	15	7	4
23	1	1	5
21	7	18	5
19	13	11	6
17	19	4	7
15	5	22	7

Par	Mi.	Gr.	Gr.	d.w
23	1	1		1
9	3	2	6	2
18	6	4		5
27	9	6	12	7
36	12	8		10
8	16	10	12	12
17	19	12		15
26	2	15	12	17
pt.	mi		gr.	dt.
11	17		81	1
36	12			
24	8		12	
12	4		6	
32	2		4	

Parts.	Mites.	Grains.	D. Wt.	Ounce.	L. Wt.
13	11	15	8	0	1
26	2	7	17	0	2
2	14	22	5	1	3
15	5	14	14	1	4
28	16	5	3	2	5
4	8	21	11	2	6
17	9	12	0	3	7
30	10	4	9	3	8
16	2	20	17	3	9
19	13	11	6	4	10
32	4	3	15	4	11
1	7	23	12	8	20
20	0	11	19	12	30
2	14	22	5	17	40
30	7	10	12	19	45
21	1	22	18	25	60
3	14	9	5	30	70
22	8	21	11	34	80
23	1	9	18	38	90
5	15	20	4	43	100
10	10	17	9	86	200
15	5	14	14	129	300
20	0	11	19	172	400
25	15	7	4	216	500

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	9	4	10	30
2	0	18	9	1	23
3	1	7	13	12	16
4	1	16	18	3	9
5	2	5	22	14	2
6	2	15	3	4	32
7	3	4	7	15	25
8	3	13	12	6	18
9	4	2	16	17	11
10	4	11	21	8	4
11	5	1	1	18	34
20	9	3	18	16	8
30	13	15	16	4	12
40	18	7	13	12	16
45	20	13	12	6	18
50	22	19	11	0	20
60	27	11	8	8	24
70	32	3	5	16	28
80	36	15	3	4	32
90	41	7	0	12	36
100	45	18	22	1	3
200	91	17	20	2	6
300	137	16	18	3	9
400	183	15	16	4	12
500	229	14	14	5	15

D. wt.	Grains.	Mites.	Parts.
0	18	7	21
1	12	15	5
2	7	2	26
3	1	10	10
3	19	7	31
4	14	5	15
5	8	12	36
6	3	0	20
6	21	8	4
7	15	15	25
8	10	3	9

Pwt.	Gr.	Gr.	Mit.	Par.
1	6	1	2	36
2	12	2	5	35
5		4	11	33
7	12	6	17	31
10		9	3	29
12	12	11	9	27
15		13	15	25
17	12	16	1	23
1			18	14
	18		13	29
	12		9	7
	6		4	22
	4		3	2
	2		1	19

L. Wc.	Ounc	D. wt	Grai.	Mites	Parts
1	0	9	17	10	10
2	0	19	11	0	20
3	1	9	4	10	30
4	1	18	22	1	3
5	2	8	15	11	13
6	2	18	9	1	23
7	3	8	2	11	33
8	3	17	20	2	6
9	4	7	13	12	16
10	4	17	7	2	26
11	5	7	0	12	36
20	5	4	14	5	15
30	14	1	21	8	4
40	19	9	4	10	30
45	21	17	20	2	6
50	24	6	11	13	19
60	29	3	18	16	8
70	34	1	1	18	34
80	3	8	9	1	23
90	43	5	16	4	12
100	48	2	23	7	1
200	97	5	22	14	2
300	145	18	22	1	3
400	194	11	21	8	4
500	243	4	20	15	5

D. wt	Grai	Mites	Parts
0	19	9	7
1	4	18	14
2	10	7	21
3	5	16	28
4		5	35
4	20	15	5
5	16	4	12
6	11	13	19
7	7	2	26
8	2	11	33
8	22	1	3

d. w	Gr.	Gr.	Mit	Par
1	6	1	4	12
2	12	2	8	24
5		4	17	11
7	2	7	5	35
10		9	14	22
12	12	12	3	9
15		14	11	33
17	12	17	0	20
1		0	19	17
	18		14	22
	12		9	27
	6		4	32
	4		3	9
	2		1	23

L. wt.	Ounc.	D. wt.	Grains.	Mites.	Parts
1	0	10	6	9	27
2	1	0	1	19	17
3	1	10	19	9	7
4	2	1	1	18	34
5	2	11	8	8	24
6	3	1	1	18	4
7	3	11	21	8	4
8	4		14	17	31
9	4	1	10	7	21
10	5		1	17	11
11	5	12	23	7	1
20	10	5	9	14	22
30	15	8	2	11	33
40	20	10	9	9	7
45	23	2	3	17	31
50	25	13	12	6	18
60	30	16	6	3	9
70	35	18	22	1	3
80	41	1	14	18	14
90	46	4	7	15	25
100	51	7	0	12	36
200	102	14		5	35
300	154		1	18	34
400	205	8	2	11	33
500	256	15	3	4	32

D. wt.	Grain.	Mites.	Parts.
0	20	10	30
1	17	1	23
2	13	12	16
3	10	3	9
4	6	14	2
5	3	4	32
5	23	15	25
6	20	6	18
7	16	17	11
8	13	7	4
9	9	18	34

d. w	Gr.	Gr.	Mit	Par
1	6	1	5	25
2	12	2	11	13
5		5	2	26
7	12	7	14	2
10		10	5	15
12	12	12	16	28
15		1	8	4
17	12	17	19	17
1		1	0	20
	18	0	15	15
	12	0	10	10
	6	0	5	5
	4	0	3	15
	2	0	1	26

Ten-penny weight. *At the* Ounce.

L wt.	Ounc.	D. wt.	Grains.	Mites.	Parts.
1	0	10	19	9	7
2	1	1	14	18	14
3	1	12	10	7	21
4	2	3	5	16	28
5	2	14	1	5	35
6	3	4	20	15	5
7	3	15	16	4	12
8	4	6	11	13	19
9	4	17	7	2	26
10	5	8	2	11	33
11	5	18	22	1	3
20	10	16	5	3	29
30	16	4	7	15	25
40	21	12	10	7	21
45	24	6	11	13	19
50	27	0	12	19	17
60	32	8	15	11	13
70	37	16	18	3	9
80	43	4	20	15	5
90	48	12	23	7	1
100	54	1	1	18	34
200	108	2	3	17	31
300	162	3	5	16	28
400	216	4	7	15	25
500	270	5	9	14	22

D. wt.	Grain.	Mites.	Parts.
0	21	12	16
1	19	4	32
2	16	17	11
3	14	9	27
4	12	2	6
5	9	14	22
6	7	7	1
7	4	19	17
8	2	11	33
9	0	4	12
9	21	16	28

d. w	Gr.	Gr.	Mit	Par
1	6	1	7	1
2	12	2	14	2
5		5	8	4
7	12	8	2	6
10		10	16	8
12	12	13	10	10
15		16	4	12
17	12	18	18	14
1		1	1	23
	18	0	16	8
	12	0	10	30
	6	0	5	15
	4	0	3	22
	2	0	1	30

L wt	Ounc.	D. wt	Grai.	Mites	Parts
1	0	11	8	8	24
2	1	2	16	17	11
3	1	14	1	5	35
4	2	5	9	14	22
5	2	16	18	3	9
6	3	8	2	11	33
7	3	19	11	0	20
8	4	10	19	9	7
9	5	2	3	17	31
10	5	13	12	6	18
11	6	4	20	15	5
20	11	7	0	12	36
30	17	0	12	19	17
40	22	14	1	5	35
45	25	10	19	9	7
50	28	7	13	12	16
60	34	1	1	18	34
70	39	14	14	5	15
80	45	8	2	11	33
90	51	1	14	18	14
100	56	15	3	4	32
200	113	10	6	9	27
300	170	5	9	14	22
400	227	0	12	19	17
500	283	15	16	4	12

D. wt.	Grai.	Mites	Parts.
0	22	14	2
1	21	8	4
2	20	2	6
3	18	16	8
4	17	10	10
5	16	4	12
6	14	18	14
7	13	12	16
8	12	6	18
9	11	0	20
10	9	14	22

d. wt	Gr.	Gr.	Mit.	Par.
1	6		1	8 14
2	12		2	10 28
5			5	13 19
7	12		8	10 10
10			11	7 1
12	12		14	3 29
15			17	0 20
17	12		19	17 11
1			1	2 26
	18		0	17 1
	12		0	11 13
	6		0	5 25
	4		0	3 29
	2		0	1 33

L. Wt	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	11	21	8	4
2	1	3	18	16	8
3	1	15	16	4	12
4	2	7	13	12	16
5	2	19	11	0	20
6	3	11	8	8	24
7	4	3	5	16	28
8	4	15	3	4	[illegible]
9	5	7	0	12	[illegible]
10	5	18	22	1	3
11	6	10	19	9	7
20	11	17	20	2	6
30	17	16	18	3	9
40	23	15	16	4	12
45	26	15	3	4	32
50	29	14	14	5	15
60	35	13	12	6	18
70	41	12	10	7	21
80	47	11	8	8	24
90	53	10	6	9	27
100	50	9	4	10	30
200	118	18	9	1	23
300	178	7	13	12	16
400	237	16	18	3	9
500	297	5	22	14	2

D. w.	Grains.	Mites.	Parts.
0	23	15	25
1	23	11	13
2	23	7	1
3	23	2	26
4	22	18	14
5	22	14	2
6	22	9	27
7	22	5	15
8	22	1	3
9	21	10	28
10	21	12	10

d. w	Gr.	Gr.	Mit.	Par.
1	6	1	9	27
2	12	3	19	17
5		5	18	34
7	12	8	18	14
10		11	17	31
12	12	14	17	11
15		17	16	28
17	12	20	16	8
d.	gr.	gr.	mi	pt.
1		1	3	29
	18	0	17	31
	12	0	11	33
	6	0	5	35
	2	0	2	35

L. wt.	Ounce.	D. Wt.	Grains.	Mites.	Parts.
1	0	12	10	7	21
2	1	4	20	15	5
3	1	17	7	2	26
4	2	9	17	10	10
5	3	2	3	17	31
6	3	14	14	5	15
7	4	7	0	12	36
8	4	19	11	0	20
9	5	11	21	8	4
10	6	4	7	15	25
11	6	16	18	3	9
20	12	8	15	11	13
30	18	12	23	7	1
40	24	17	7	2	26
45	27	19	11	0	20
50	31	1	14	18	14
60	37	5	22	14	2
70	43	10	6	9	27
80	49	14	14	5	15
90	55	18	22	1	3
100	62	3	5	16	28
200	124	6	11	13	19
300	186	9	17	10	10
400	248	12	23	7	1
500	310	16	5	3	29

D. wt.	Grains.	Mites.	Parts.
1	0	17	11
2	1	14	22
3	2	11	33
4	3	9	7
5	4	6	18
6	5	3	29
7	6	1	3
8	6	18	14
9	7	15	25
10	8	12	36
11	9	10	10

dr.	gr.	gr.	mi	pt.
1	6	1	11	3
2	12	3	2	6
5		6	4	12
7	12	9	6	18
10		12	8	24
12	12	15	10	30
15		18	13	36
17	12	21	15	5
1	gr.	1	4	32
	18		18	24
	12		12	16
	6		6	8
	4		4	5

Twelve-penny weight. *At the* Ounce.

Parts.	Mites.	Grains.	D. wt.
1	18	34	1
2	17	31	2
3	16	28	3
4	15	25	4
5	14	22	5
6	13	19	6
7	12	16	7
8	11	13	8
9	10	10	9
10	9	7	10
11	8	4	11

Par	Mit	Gr.	d.w	Gr.
16	12	1	1	6
32	4	3	2	12
27	9	6	5	
32	14	9	7	12
17	19	12	10	
12	4	16	13	12
7	9	19	15	
2	14	22	17	12
35	5	1	1	
17	19			18
36	12			12
18	6			6
12	4			4
6	2			2

Parts.	Mites.	Grains.	D. wt.	Ounce.	L. Wt.
1	7	23	12	0	1
2	14	22	5	1	2
3	1	22	18	1	3
4	8	21	11	2	4
5	15	20	4	3	5
6	2	20	17	3	6
7	9	19	10	4	7
8	16	18	3	5	8
9	3	18	16	5	9
10	10	17	9	6	10
11	17	16	2	7	11
20	0	11	19	12	20
30	10	4	9	19	30
40	1	22	18	25	40
45	16	18	3	29	45
50	11	15	8	32	50
60	1	9	18	38	60
70	11	2	8	45	70
80	2	20	17	51	80
90	12	13	7	58	90
100	2	7	17	64	100
200	5	14	14	129	200
300	8	21	11	194	300
400	0	4	9	259	400
500	13	11	6	324	500

L. wt	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	13	12	6	18
2	1	7	0	12	36
3	2	0	12	19	17
4	2	14	1	5	35
5	3	7	13	12	16
6	4	1	1	18	34
7	4	14	14	5	15
8	5	8	2	11	33
9	6	1	14	18	14
10	6	15	3	4	32
11	7	8	15	11	13
20	13	10	6	9	27
30	20	5	9	14	22
40	27	0	12	19	17
45	30	8	2	11	33
50	33	15	16	4	12
60	40	10	19	9	7
70	47	5	22	14	2
80	54	1	1	18	34
90	60	16	5	3	29
100	67	11	8	8	24
200	135	2	16	17	11
300	202	14	1	5	35
400	270	5	9	14	22
500	337	16	18	3	9

D. w.	Grains.	Mites.	Parts.
1	3	0	20
2	6	1	3
3	9	1	23
4	12	2	6
5	15	2	26
6	18	3	9
7	21	3	20
9	0	4	12
10	3	4	32
11	6	5	15
12	9	5	35

d. w	Gr.	Gr.	Mit	Par.
1	6	1	13	29
2	12	3	7	21
5		6	15	5
7	12	10	2	26
10		13	10	10
12	12	16	17	31
15		20	5	15
17	12	23	12	36
1		1	7	1
	18	1	0	10
	12		13	19
	6		6	28
	4		4	18
	2		2	9

Parts.	Mites.	Grains.	D. wt.
6	2	4	1
12	4	8	2
18	6	12	3
24	8	16	4
30	10	20	5
36	12	0	6
5	15	4	7
11	17	8	8
17	19	12	9
23	1	16	10
29	3	20	11
35	5	0	12
33	11	2	1
31	17	3	2
29	3	5	3
27	9	6	4
25	15	7	5
3	1	9	6
21	7	10	7
19	13	11	8
17	19	12	9
15	5	14	10
34	18	15	11
14	8	16	12
31	17	3	1
21	7	5	2
11	1	7	3
28	16	8	4
8	10	10	5
25	4	11	6
5	14	13	7
22	8	14	8
7	2	15	9
29	12	17	10
14	6	18	11
36	0	20	12

Parts.	Mites.	Grains.	d. wt.
5	15	1	1
10	10	3	2
20	0	7	5
3	10	15	7
8	1	17	10
13	11	20	12
23	1	d.wt 21	15
33	11	1	17
4	8	1	1
3	1	1	2
2	14	0	5
1	7	0	7
25			

Parts.	Grains.	Ounce.	D. wt	L. wt.
35	1	0	14	1
33	2	1	8	2
31	3	2	2	3
29	5	3	16	4
27	6	4	10	5
25	7	4	4	6
3	9	5	18	7
21	10	6	12	8
19	12	7	6	9
17	13	8	0	10
15	15	9	14	11
34	18	10	8	12
14	19	11	2	13
31	2	12	16	14
21	4	13	10	15
11	7	14	4	16
28	8	15	18	17
8	10	16	12	18
25	13	17	6	19
5	15	18	0	20
22	16	19	14	21
7	18	20	8	22
29	1	21	2	23
14	3	22	16	24
36	4	23	10	25
	6	24	4	26
	7	25	18	27
	9	26	12	28
	10	27	6	29
	12	28	0	30
	13	29	14	31
	15	30	8	32
	16	31	2	33
	18	32	16	34
	19	33	10	35
	1	34	4	36
	3	35	18	37
	4	36	12	38
	6	37	6	39
	7	38	0	40
	9	39	14	41
	10	40	8	42
	12	41	2	43
	13	42	16	44
	15	43	10	45
	16	44	4	46
	18	45	18	47
	19	46	12	48
	1	47	6	49
	3	48	0	50
	4	49	14	51
	6	50	8	52
	7	51	2	53
	9	52	16	54
	10	53	10	55
	12	54	4	56
	13	55	18	57
	15	56	12	58
	16	57	6	59
	18	58	0	60
	19	59	14	61
	1	60	8	62
	3	61	2	63
	4	62	16	64
	6	63	10	65
	7	64	4	66
	9	65	18	67
	10	66	12	68
	12	67	6	69
	13	68	0	70
	15	69	14	71
	16	70	8	72
	18	71	2	73
	19	72	16	74
	1	73	10	75
	3	74	4	76
	4	75	18	77
	6	76	12	78
	7	77	6	79
	9	78	0	80
	10	79	14	81
	12	80	8	82
	13	81	2	83
	15	82	16	84
	16	83	10	85
	18	84	4	86
	19	85	18	87
	1	86	12	88
	3	87	6	89
	4	88	0	90
	6	89	14	91
	7	90	8	92
	9	91	2	93
	10	92	16	94
	12	93	10	95
	13	94	4	96
	15	95	18	97
	16	96	12	98
	18	97	6	99
	19	98	0	100
	1	99	14	101
	3	100	8	102
	4	101	2	103
	6	102	16	104
	7	103	10	105
	9	104	4	106
	10	105	18	107
	12	106	12	108
	13	107	6	109
	15	108	0	110
	16	109	14	111
	18	110	8	112
	19	111	2	113
	1	112	16	114
	3	113	10	115
	4	114	4	116
	6	115	18	117
	7	116	12	118
	9	117	6	119
	10	118	0	120
	12	119	14	121
	13	120	8	122
	15	121	2	123
	16	122	16	124
	18	123	10	125
	19	124	4	126
	1	125	18	127
	3	126	12	128
	4	127	6	129
	6	128	0	130
	7	129	14	131
	9	130	8	132
	10	131	2	133
	12	132	16	134
	13	133	10	135
	15	134	4	136
	16	135	18	137
	18	136	12	138
	19	137	6	139
	1	138	0	140
	3	139	14	141
	4	140	8	142
	6	141	2	143
	7	142	16	144
	9	143	10	145
	10	144	4	146
	12	145	18	147
	13	146	12	148
	15	147	6	149
	16	148	0	150
	18	149	14	151
	19	150	8	152
	1	151	2	153
	3	152	16	154
	4	153	10	155
	6	154	4	156
	7	155	18	157
	9	156	12	158
	10	157	6	159
	12	158	0	160
	13	159	14	161
	15	160	8	162
	16	161	2	163
	18	162	16	164
	19	163	10	165
	1	164	4	166
	3	165	18	167
	4	166	12	168
	6	167	6	169
	7	168	0	170
	9	169	14	171
	10	170	8	172
	12	171	2	173
	13	172	16	174
	15	173	10	175
	16	174	4	176
	18	175	18	177
	19	176	12	178
	1	177	6	179
	3	178	0	180
	4	179	14	181
	6	180	8	182
	7	181	2	183
	9	182	16	184
	10	183	10	185
	12	184	4	186
	13	185	18	187
	15	186	12	188
	16	187	6	189
	18	188	0	190
	19	189	14	191
	1	190	8	192
	3	191	2	193
	4	192	16	194
	6	193	10	195
	7	194	4	196
	9	195	18	197
	10	196	12	198
	12	197	6	199
	13	198	0	200
	15	199	14	201
	16	200	8	202
	18	201	2	203
	19	202	16	204
	1	203	10	205
	3	204	4	206
	4	205	18	207
	6	206	12	208
	7	207	6	209
	9	208	0	210
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	13	211	2	213
	15	212	16	214
	16	213	10	215
	18	214	4	216
	19	215	18	217
	1	216	12	218
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	13	224	4	226
	15	225	18	227
	16	226	12	228
	18	227	6	229
	19	228	0	230
	1	229	14	231
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	4	231	2	233
	6	232	16	234
	7	233	10	235
	9	234	4	236
	10	235	18	237
	12	236	12	238
	13	237	6	239
	15	238	0	240
	16	239	14	241
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	19	241	2	243
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	4	244	4	246
	6	245	18	247
	7	246	12	248
	9	247	6	249
	10	248	0	250
	12	249	14	251
	13	250	8	252
	15	251	2	253
	16	252	16	254
	18	253	10	255
	19	254	4	256
	1	255	18	257
	3	256	12	258
	4	257	6	259
	6	258	0	260
	7	259	14	261
	9	260	8	262
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	12	262	16	264
	13	263	10	265
	15	264	4	266
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	19	267	6	269
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	3	269	14	271
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	15	277	6	279
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	4	283	10	285
	6	284	4	286
	7	285	18	287
	9	286	12	288
	10	287	6	289
	12	288	0	290
	13	289	14	291
	15	290	8	292
	16	291	2	293
	18	292	16	294
	19	293	10	295
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	12	314	4	316
	13	315	18	317
	15	316	12	318
	16	317	6	319
	18	318	0	320
	19	319	14	321
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	3	321	2	323
	4	322	16	324
	6	323	10	325
	7	324	4	326
	9	325	18	327
	10	326	12	328
	12	327	6	329
	13	328	0	330
	15	329	14	331
	16	330	8	332
	18	331	2	333
	19	332	16	334
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	3	334	4	336
	4	335	18	337
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	13	354	4	356
	15	355	18	357
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	7	363	10	365
	9	364	4	366
	10	365	18	367
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	12	405	18	407
	13	406	12	408
	15	407	6	409
	16	408	0	410
	18	409	14	411
	19	410	8	412
	1	411	2	413
	3	412	16	414
	4	413	10	415
	6	414	4	416
	7	415	18	417
	9	416	12	418
	10	417	6	419
	12	418	0	420
	13	419	14	421
	15	420	8	422
	16	421	2	423
	18	422	16	424
	19	423	10	425
	1	424	4	426
	3	425	18	427
	4	426	12	428
	6	427	6	429
	7	428	0	430
	9	429	14	431
	10	430	8	432
	12	431	2	433
	13	432	16	434
	15	433	10	435
	16	434	4	436
	18	435	18	437
	19	436	12	438
	1	437	6	439
	3	438	0	440
	4	439	14	441
	6	440	8	442
	7	441	2	443
	9	442	16	444
	10	443	10	445
	12	444	4	446
	13	445	18	447
	15	446	12	448
	16	447	6	449
	18	448	0	450
	19	449	14	451
	1	450	8	452
	3	451	2	453
	4	452	16	454
	6	453	10	455
	7	454	4	456
	9	455	18	457
	10	456	12	458
	12	457	6	459
	13	458	0	460
	15	459	14	461
	16	460	8	462
	18	461	2	463
	19	462	16	464
	1	463	10	465
	3	464	4	466
	4	465	18	467
	6	466	12	468
	7	467	6	469
	9	468	0	470
	10	469	14	471
	12	470	8	472
	13	471	2	473
	15	472	16	474
	16	473	10	475
	18	474	4	476
	19	475	18	477
	1	476	12	478
	3	477	6	479
	4	478	0	480
	6	479	14	481
	7	480	8	482
	9	481	2	483
	10	482	16	484
	12	483	10	485
	13	484	4	486
	15	485	18	487
	16	486	12	488
	18	487	6	489
	19	488	0	490
	1	489	14	491
	3	490	8	492
	4	491	2	493
	6	492	16	494
	7	493	10	495
	9	494	4	496
	10	495	18	497
	12	496	12	498
	13	497	6	499
	15	498	0	500

Lb. wt.	Ounces.	D. wt.	Grains.	Mites.	Parts.
1	0	14	14	5	15
2	1	9	4	10	30
3	2	3	18	16	8
4	2	18	9	1	23
5	3	12	23	7	1
6	4	7	13	12	16
7	5	2	3	17	31
8	5	16	18	3	9
9	6	11	8	8	24
10	7	5	22	14	2
11	8	0	12	19	17
12	14	11	21	8	4
13	21	17	20	2	6
14	29	3	18	16	8
15	32	16	18	3	9
50	36	9	17	10	10
60	43	15	16	4	12
70	51	1	14	18	14
80	58	7	13	12	16
90	65	13	12	6	18
100	72	19	11	0	20
200	145	18	22	0	4
300	218	18	9	0	24
400	291	17	20	0	8
500	364	17	7	0	28

D. wt.	Grains.	Mites.	Parts.
1	5	3	29
2	10	7	21
3	15	11	13
4	20	15	5
6	1	18	34
7	7	2	26
8	12	6	18
9	17	10	10
10	22	14	2
12	3	17	31
3	9	1	23

d. w.	Gr.	Gr.	Mit.	Par.
1	6	1	16	18
2	12	3	12	36
5		7	15	35
7	12	10	18	34
10		14	11	33
12	12	18	4	32
15		21	17	31
17	12	1	1	30
1		1	9	7
	18	1	1	33
	12	0	14	22
	6	0	7	11
	4	0	4	32

Parts.	Mites.	Grains.	D. wt.
15	5	6	1
30	10	12	2
8	16	18	3
23	1	1	5
1	7	7	6
16	12	13	7
31	17	19	8
9	3	2	10
24	8	8	11
2	14	14	12
17	19	20	13

Parts.	Mites.	Grains.	D. wt.	Ounce.
32	4	3	15	0
27	9	6	10	1
22	14	9	5	2
17	19	12	0	3
12	4	16	15	3
7	9	19	10	4
2	14	22	5	5
34	18	1	1	6
29	3	5	16	6
24	8	8	11	7
19	13	11	6	8
11	17	16	2	15
35	5	1	14	22
22	14	9	5	30
34	18	1	1	34
9	3	18	16	37
33	7	1	8	45
20	11	6	2	52
7	16	10	8	60
31	20	14	2	68
18	1	12	13	75
36	2	0	7	151
18	2	12	0	227
5	2	1	14	302
16	2	13	7	378

Par	Mit	Gr.	Gr.	dwt	L. wt.
31	17	1		1	1
25	15	3		2	2
13	11	7		5	3
1	7	11		7	4
26	2	15		10	5
14	18	18		12	6
2	14	22		15	7
27	9	2		17	8
15	5	7		20	9
3	1	11		1	10
28	2	15			11
16	2	18			12
4	15	22			13
29	10	1			14
17	6	5			15
5	1	9			16
30	11	12			17
18	7	16			18
6	2	19			19
31	12	23			20
19	8	2			21
7	3	6			22
32	13	10			23
20	9	13			24
8	4	17			25
33	14	21			26
21	10	1			27
9	5	5			28
34	15	9			29
22	11	13			30
10	6	17			31
35	16	21			32
23	12	1			33
11	7	5			34
36	17	9			35
24	13	13			36
12	8	17			37
37	18	21			38
25	14	1			39
13	9	5			40
38	19	9			41
26	15	13			42
14	10	17			43
39	20	21			44
27	16	1			45
15	11	5			46
40	21	9			47
28	17	13			48
16	12	17			49
41	22	21			50
29	18	1			51
17	13	5			52
42	23	9			53
30	19	13			54
18	14	17			55
43	24	21			56
31	20	1			57
19	15	5			58
44	25	9			59
32	21	13			60
20	16	17			61
45	26	21			62
33	22	1			63
21	17	5			64
46	27	9			65
34	23	13			66
22	18	17			67
47	28	21			68
35	24	1			69
23	19	5			70
48	29	9			71
36	25	13			72
24	20	17			73
49	30	21			74
37	26	1			75
25	21	5			76
50	31	9			77
38	27	13			78
26	22	17			79
51	32	21			80
39	28	1			81
27	23	5			82
52	33	9			83
40	29	13			84
28	24	17			85
53	34	21			86
41	30	1			87
29	25	5			88
54	35	9			89
42	31	13			90
30	26	17			91
55	36	21			92
43	32	1			93
31	27	5			94
56	37	9			95
44	33	13			96
32	28	17			97
57	38	21			98
45	34	1			99
33	29	5			100
58	39	9			101
46	35	13			102
34	30	17			103
59	40	21			104
47	36	1			105
35	31	5			106
60	41	9			107
48	37	13			108
36	32	17			109
61	42	21			110
49	38	1			111
37	33	5			112
62	43	9			113
50	39	13			114
38	34	17			115
63	44	21			116
51	40	1			117
39	35	5			118
64	45	9			119
52	41	13			120
40	36	17			121
65	46	21			122
53	42	1			123
41	37	5			124
66	47	9			125
54	43	13			126
42	38	17			127
67	48	21			128
55	44	1			129
43	39	5			130
68	49	9			131
56	45	13			132
44	40	17			133
69	50	21			134
57	46	1			135
45	41	5			136
70	51	9			137
58	47	13			138
46	42	17			139
71	52	21			140
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47	43	5			142
72	53	9			143
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48	44	17			145
73	54	21			146
61	50	1			147
49	45	5			148
74	55	9			149
62	51	13			150
50	46	17			151
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63	52	1			153
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76	57	9			155
64	53	13			156
52	48	17			157
77	58	21			158
65	54	1			159
53	49	5			160
78	59	9			161
66	55	13			162
54	50	17			163
79	60	21			164
67	56	1			165
55	51	5			166
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68	57	13			168
56	52	17			169
81	62	21			170
69	58	1			171
57	53	5			172
82	63	9			173
70	59	13			174
58	54	17			175
83	64	21			176
71	60	1			177
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84	65	9			179
72	61	13			180
60	56	17			181
85	66	21			182
73	62	1			183
61	57	5			184
86	67	9			185
74	63	13			186
62	58	17			187
87	68	21			188
75	64	1			189
63	59	5			190
88	69	9			191
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64	60	17			193
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77	66	1			195
65	61	5			196
90	71	9			197
78	67	13			198
66	62	17			199
91	72	21			200
79	68	1			201
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80	69	13			204
68	64	17			205
93	74	21			206
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69	65	5			208
94	75	9			209
82	71	13			210
70	66	17			211
95	76	21			212
83	72	1			213
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96	77	9			215
84	73	13			216
72	68	17			217
97	78	21			218
85	74	1			219
73	69	5			220
98	79	9			221
86	75	13			222
74	70	17			223
99	80	21			224
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78	74	17			235
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98	94	17			295
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113	102	1			303
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126	107	9			305
114	103	13			306
102	98	17			307
127	108	21			308
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133	114	21			326
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111	107	5			334
136	117	9			335
124	113	13			336
112	108	17			337
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113	109	5			340
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139	120	21			344
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137	133	5			412
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163	144	21			416
151	140	1			417
139	135	5			418
164	145	9			419
152	141	13			420
140	136	17			421
165	146	21			422
153	142	1			423
141	137	5			424
166	147	9			425
154	143	13			426
142	138	17			427
167	148	21			428
155	144	1			429
143	139	5			430
168	149	9			431
156	145	13			432
144	140	17			433
169	150	21			434
157	146	1			435
145	141	5			436
170	151	9			437
158	147	13			438
146	142	17			439
171	152	21			440
159	148	1			441
147	143	5			442
172	153	9			443
160	149	13			444
148	144	17			445
173	154	21			446
161	150	1			447
149	145	5			448
174	155	9			449
162	151	13			450
150	146	17			451
175	156	21			452
163	152	1			453
151	147	5			454
176	157	9			455
164	153	13			456
152	148	17			457
177	158	21			458
165	154	1			459
153	149	5			460
178	159	9			461
166	155	13			462
154	150	17			463
179	160	21			464
167	156	1			465
155	151	5			466
180	161	9			467
168	157	13			468
156	152	17			469
181	162	21			470
169	158	1			471
157	153	5			472
182	163	9			473
170	159	13			474
158	154	17			475
183	164	21			476
171	160	1			477
159	155	5			478
184	165	9			479
172	161	13			480
160	156	17			481
185	166	21			482
173	162	1			483
161	157	5			484
186	167	9			485
174	163	13			486
162	158	17			487
187	168	21			488
175	164	1			489
163	159	5			490
188	169	9			491
176	165	13			492
164	160	17			493
189	170	21			494
177	166	1			495
165	161	5			496
190	171	9			497
178	167	13			498
166	162	17			499
191	172	21			500
179	168	1			
167	163	5			
192	173	9			
180	169	13			
168	164	17			
193	174	21			
181	170	1			
169	165	5			
194	175	9			
182	171	13			
170	166	17			
195	176	21			
183	172	1			
171	167	5			
196	177	9			
184	173	13			
172	168	17			
197	178	21			
185	174	1			
173	169	5			
198	179	9			
186	175	13			
174	170	17			
199	180	21			
187	176	1			
175	171	5			
200	181	9			
188	177	13			
176	172	17			
201	182	21			
189	178	1			
177	173	5			
202	183	9			
190	179	13			
178	174	17			
203	184	21			
191	180	1			
179	175	5			
204	185	9			
192	181	13			
180	176	17			
205	186	21			
193	182	1			
181	177	5			
206	187	9			
194	183	13			
182	178	17			
207	188	21			
195	184	1			
183	179	5			
208	189	9			
196	185	13			
184	180	17			
209	190	21			
197	186	1			
185	181	5			
210	191	9			
198	187	13			
186	182	17			
211	192	21			
199	188	1			
187	183	5			
212	193	9			
200	189	13			
188	184	17			
213	194	21			
201	190	1			
189	185	5			
214	195	9			
202	191	13			
190	186	17			
215	196	21			
203	192	1			
191	187	5			
216	197	9			
204	193	13			
192	188	17			
217	198	21			
205	194	1			
193	189	5			
218	199	9			
206	195	13			
194	190	17			
219	200	21			
207	196	1			
195	191	5			
220	201	9			
208	197	13			
196	192	17			
221	202	21			
209	198	1			
197	193	5			
222	203	9			
210	199	13			
198	194	17			
223	204	21			
211	200	1			
199	195	5			
224	205	9			
212	201	13			
200	196	17			
225	206	21			
213	202	1			
201	197	5			
226	207	9			
214	203	13			
202	198	17			
227	208	21			
215	204	1			
203	199	5			
228	209	9			
216	205	13			
204	200	17			
229	210	21			
217	206	1			
205	201	5			
230	211	9			
218	207	13			
206	202	17			
231	212	21			
219	208	1			
207	203	5			
232	213	9			
220	209	13			
208	204	17			
233	214	21			
221	210	1			
209	205	5			
234	215	9			
222	211	13			
210	206	17			
235	216	21			
223	212	1			
211	207	5			
236	217	9			
224	213	13			
212	208	17			
237	218	21			
225	214	1			
213	209	5			
238	219	9			
226	215	13			
214	210	17			
239	220	21			
227	216	1			
215	211	5			
240	221	9			
228	217	13			
216	212	17			
241	222	21			
229	218	1			
217	213	5			
242	223	9			
230	219	13			
218	214	17			
243	224	21			
231	220	1			
219	215	5			
244	225	9			
232	221	13			
220	216	17			
245	226	21			
233	222	1			
221	217	5			
246	227	9			
234	223	13			
222	218	17			
247	228	21			
235	224	1			
223	219	5			
248	229	9			
236	225	13			
224	220	17			
249	230	21			
237	226	1			
225	221	5			
250	231	9			
238	227	13			
226	222	17			
251	232	21			
239	228	1			
227	223	5			
252	233	9			
240	229	13			
228	224	17			
253	234	21			
241	230	1			
229	225	5			
254	235	9			
242	231	13			
230	226	17			
255	236	21			
243	232	1			
231	227	5			
256	237	9			
244	233	13			
232	228	17			
257	238	21			
245	234	1			
233	229	5			
258	239	9			
246	235	13			
234	230	17			
259	240	21			
247	236	1			
235	231	5			
260	241	9			
248	237	13			
236	232	17			
261	242	21			
249	238	1			
237	233	5			
262	243	9			
250	239	13			
238	234	17			
263	244	21			
251	240	1			
239	235	5			
264	245	9			
252	241	13			
240	236	17			
265	246	21			
253	242	1			
241	237	5			
266	247	9			
254	243	13			
242	238	17			
267	248	21			
255	244	1			
243	239	5			
268	249	9			
256	245	13			
244	240	17			
269	250	21			
257	246	1			
245	241	5			
270	251	9			
258	247	13			
246	242	17			
271	252	21			
259	248	1			
247	243	5			
272	253	9			
260	249	13			
248	244	17			
273	254	21			
261	250	1			
249	245	5			
274	255	9			
262	251	13			
250	246	17			
275	256	21			
263	252	1			
251	247	5			
276	257	9			
264	253	13			
252	248	17			
277	258	21			
265	254	1			
253	249	5			
278	259	9			
266	255	13			
254	250	17			
279	260	21			
267	256	1			
255	251	5			
280	261	9			
268	257	13			
256	252	17			
281	262	21			
269	258	1			
257	253	5			
282	263	9			
270	259	13			
258	254	17			
283	264	21			
271	260	1			
259	255	5			
284	265	9			
272	261	13			
260	256	17			
285	266	21			
273	262	1			
261	257	5			
286	267	9			
274	263	13			
262	258	17			
287	268	21			
275	264	1			
263	259	5			
288	269	9			
276	265	13			
264	260	17			
289	270	21			
277	266	1			
265	261	5			
290	271	9			
278	267	13

L. wt.	Ounce.	D. wt	Grains.	Mites.	Parts.
1	0	15	16	4	12
2	1	11	8	8	24
3	2	7	0	12	36
4	3	2	16	17	11
5	3	18	9	1	23
6	4	14	1	5	35
7	5	9	17	10	10
8	6	5	9	14	22
9	7	1	1	18	34
10	7	16	18	3	9
11	8	12	10	7	21
20	15	13	12	6	18
30	23	10	6	9	27
40	31	7	0	12	36
45	35	5	9	14	22
50	39	3	18	16	8
60	47	0	12	19	17
70	54	17	7	2	26
80	62	14	1	5	35
90	70	10	19	9	7
100	78	7	13	12	16
200	156	15	3	4	32
300	235	2	16	17	11
400	313	10	6	9	27
500	391	17	20	2	6

D. wt.	Grains.	Mites.	Parts.
1	7	7	1
2	14	14	2
3	22	1	3
5	5	8	14
6	12	15	5
7	20	2	6
9	3	9	7
10	10	16	8
11	18	3	9
13	1	10	10
14	8	17	11

d. w	Gr.		Gr.	Mit	Par
1	6		1	19	7
2	12		3	18	14
5			7	16	8
7	12		11	15	5
10			15	13	19
12	12		19	11	33
15		dt.	23	10	10
17	12	1	3	8	24
1			1	11	13
	18		1	3	19
	12			15	25
	6			7	31
	4			5	18

L. wt	Ounce.	D wt.	Grains.	Mites.	Parts.
1	0	16	5	3	29
2	1	12	10	7	21
3	2	8	15	11	13
5	3	4	20	15	5
6	4	1	1	18	34
	4	17	7	2	26
7		13	12	6	18
8		9	17	10	10
9		5	23	14	2
10		2	3	17	31
11		18	9	1	23
20	15	4	7	15	25
30	24	6	11	13	19
40	32	8	15	11	13
45	36	9	17	10	10
50	40	10	19	9	7
60	48	12	23	7	1
70	56	15	3	4	32
80	64	17	7	2	26
90	72	19	11	0	20
100	81	1	14	18	14
200	162	3	5	16	8
300	243	4	19	5	5
400	324	6	1	3	19
500	405	8	2	11	33

D wt.	Grains.	Mites.	Parts.
1	8	8	24
2	16	17	11
4	1	5	35
5	9	14	22
6	18	3	9
8	2	11	33
9	11	0	20
10	19	9	7
12	3	17	31
13	12	6	18
14	20	15	5

d. wt	Gr.	dt.
1	6	
2	12	
5		
7	12	
10		
12	12	dt.
15		1
17	12	1
1		
	18	
	12	
	6	
	4	
	2	

Gr.	Mit.	Par.
2	0	20
4	2	3
8		6
12	3	9
6	4	12
20	5	15
	6	18
4	7	21
1	12	16
1	4	12
0	16	8
0	8	4
0	5	15
0	2	26

L. wt.	Ounce.	D. wt.	Grains.	Miles.	Parts.
1	0	16	18	3	9
2	1	13	12	6	18
3	2	10	6	9	27
4	3	7	0	12	
5	4	3	18	16	8
6	5	0	12	9	17
7	5	17	7	2	26
8	6	14	1	5	35
9	7	10	19	9	7
10	8	7	13	12	16
11	9	4	7	15	25
20	16	15	3	4	32
30	25	2	16	17	11
40	33	10	6	9	27
45	37	14	1	5	35
50	41	17	20	2	6
60	50	5	9	14	22
70	58	12	23	7	1
80	67	0	2	19	17
90	75	8	2	1	33
100	83	15	6	4	12
200	167	11	8	8	24
300	251	7	0	12	36
400	335	2	16	17	11
500	418	18	9	1	2

D. wt.	Grains.	Miles.	Parts.
1	9	10	10
2	19	0	20
4	4	10	30
5	14	1	3
6	23	11	13
8	9	1	23
9	18	11	33
11	4	2	6
12	13	12	16
13	23	2	26
15	8	12	36

d. wt.	Gr.	Gr.	Mil	Par
1	6	2	1	33
2	12	4	3	29
5		8	7	21
7	12	12	11	13
10		16	15	5
12	12	20	18	34
15		1	2	26
17	12	5	6	18
1			13	19
	18		5	5
	12		16	21
	6		8	14
	4		5	1
	2		2	29

L. wt.	Ounce.	D. Wt.	Grains.	Mites.	Parts.
1	0	17	7	2	26
2	1	14	14	5	15
3	2	11	21	8	4
4	3	9	4	10	30
5	4	6	11	13	19
6	5	3	18	16	8
7	6	1	1	18	34
8	6	18	9	1	23
9	7	15	16	4	12
10	8	12	23	7	1
11	9	10	6	9	27
20	17	5	22	14	2
30	25	18	22	1	3
40	34	11	21	8	4
45	38	18	9	1	23
50	43	4	20	15	5
60	51	17	20	2	6
70	60	10	19	9	7
80	69	3	18	16	6
90	77	16	18	3	9
100	86	9	17	10	10
200	172	19	11	0	20
300	259	9	4	10	30
400	345	18	22	1	3
500	432	8	15	11	13

D. wt.	Grains.	Mites.	Parts.
1	10	11	33
2	21	3	29
4	7	15	25
5	18	7	21
7	4	19	17
8	15	11	13
10	2	3	9
11	12	15	5
12	23	7	1
14	9	18	34
15	20	10	30

L. w.	Gr.	Gr.	Mi.	Par.
1	6	2	3	9
2	12	4	6	18
5		8	12	36
7	12	12	19	17
10		17	25	35
12	12	21	31	16
15		1	18	34
17	12	6	5	15
		1	14	22
1	18	1	5	35
	12	0	17	11
	6	0	8	24
	4	0	5	28
	2	0	2	32

dr.

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	17	20	2	6
2	1	15	16	4	12
3	2	13	12	6	18
4	3	11	8	8	24
5	4	9	4	10	30
6	5	7	0	12	36
7	6	4	20	15	5
8	7	2	16	17	11
9	8	0	12	19	17
10	8	18	9	1	23
11	9	16	5	3	29
20	17	16	18	3	9
30	26	15	3	4	32
40	35	13	12	6	18
45	40	2	16	17	11
50	44	11	21	8	4
60	53	10	6	9	27
70	62	8	15	11	13
80	71	7	0	12	30
90	80	5	9	14	22
100	89	3	18	16	8
200	178	7	13	12	16
300	267	11	8	8	24
400	356	15	3	4	32
500	445	18	22	1	3

D. wt.	Grains.	Mites.	Parts.
1	11	13	19
2	23	7	1
4	11	0	20
5	22	14	2
7	10	7	21
8	22	1	3
10	9	14	22
11	21	8	4
13	9	1	23
14	20	15	5
16	8	8	24

d. w	Gr.		Gr.	Mit	Par
1	6	0	2	4	22
2	12	0	4	9	7
5		0	8	18	14
7	12	0	13	7	21
10			17	16	28
12	12	1	22	5	35
15		1	2	15	5
17	12	1	7	4	12
1			1	15	25
	18		1	0	28
	12			17	31
	6			8	34
	4			5	35
	2			2	36
	1			1	18

L. wt.	Ounc.	D. wt	Grai.	Mites	Parts
1	0	18	9	1	23
2	1	16	18	3	9
3	2	15	3	4	32
4	3	13	12	6	18
5	4	11	21	8	4
6	5	10	6	9	27
7	6	8	15	11	13
8	7	7	0	12	36
9	8	5	9	14	22
10	9	3	8	16	8
11	10	2	3	17	31
20	18	7	13	12	16
30	27	11	8	8	24
40	36	15	3	4	32
45	41	7	0	12	36
50	45	18	22	1	3
60	55	2	16	17	11
70	64	6	11	15	19
80	73	10	6	5	27
90	82	14	1	5	35
100	91	17	20	2	6
200	183	15	16	4	12
300	275	13	12	6	18
400	367	11	8	8	24
500	459	9	4	10	30

D. wt.	Grai.	Mites	Parts.
1	12	15	5
3	1	10	10
4	14	5	15
6	3	0	20
7	15	15	25
9	4	10	30
10	17	5	35
12	6	1	38
13	18	16	3
15	7	11	13
16	20	6	18

d. w	Gr.	d.	Gr.	Mit	Par
1	6		2	5	35
2	12		4	11	33
5			9	3	29
7	12		13	15	25
10			18	7	21
12	12	d.	22	19	17
15		1	3	11	13
17	12	1	8	3	9
1			1	16	28
	18		1	7	21
	12		1	0	14
	6		0	18	7
	4			9	4
	2			6	2
	1			3	1
					19

Seventeen-penny weight and a half. At the Ounce.

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	18	12	1	3
2	1	17	20	2	6
3	2	16	18	3	9
4	3	15	16	4	12
5	4	14	14	5	15
6	5	13	12	6	18
7	6	12	10	7	21
8	7	11	8	8	24
9	8	10	6	9	27
10	9	9	4	10	30
11	10	8	2	11	33
20	18	18	9	1	23
30	28	7	13	12	16
40	37	16	18	3	9
45	42	11	8	8	24
50	47	5	22	14	2
60	56	15	3	4	32
70	66	4	7	15	25
80	75	13	12	6	18
90	85	2	16	17	11
100	94	11	21	8	4
200	189	3	18	16	8
300	283	15	16	4	12
400	378	7	13	12	16
500	472	19	11	0	20

D. wt.	Grains.	Mites.	Parts.
1	13	16	2
3	3	13	19
4	17	0	10
6	7	7	1
7	21	3	29
9	11	0	20
11	0	17	11
12	14	14	2
14	4	10	30
15	18	7	21
17	8	4	12

L. w	Gr.	dt.	Gr.	Mit	Par
1	6		2	7	11
2	12		4	14	22
5			9	9	7
7	12		14	3	29
10			18	18	14
12	12	dt.	23	12	36
15		1	4	7	21
17	12	1	9	2	6
1			1	17	31
	18		1	8	14
	12		0	18	34
	6			9	17
	4			6	11
	2			3	5
	1			1	21

L. wt	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	0	19	11	0	20
2	1	18	22	1	3
3	2	18	9	1	23
4	3	17	20	2	6
5	4	17	7	2	26
6	5	16	18	3	9
7	6	16	5	3	29
8	7	15	16	4	12
9	8	15	3	4	32
10	9	14	14	5	15
11	10	14	1	5	35
20	19	9	4	10	30
30	29	3	18	16	8
40	38	18	9	1	23
45	43	15	16	4	12
50	48	12	23	7	1
60	58	7	13	12	16
70	68	2	3	17	31
80	77	16	18	3	9
90	87	11	8	8	24
100	97	5	22	14	2
200	194	11	21	8	4
300	291	17	20	2	6
400	389	3	18	16	8
500	486	9	17	10	10

D. w	Grains.	Mites.	Parts.
1	14	18	14
3	5	16	28
4	20	15	5
6	11	13	19
8	2	11	33
9	17	10	10
11	8	8	24
12	23	7	1
14	14	5	15
16	5	3	29
17	20	2	6

dt.	Gr.	Gr.	Mit.	Par.
1	6	2	8	24
2	12	4	17	11
5		9	14	22
7	12	14	11	33
10		19	9	7
12	12	1	6	18
15		1	3	29
17	12	1	1	3
1		1	18	34
	18	1	9	7
	12		19	17
	6		9	27
	4		6	18
	2		3	9
	1		1	23

L. wt.	Ounc.	D. wt.	Grains.	Mites.	Parts.
1	1	0	0	0	0
2	2	0	0	0	0
3	3	0	0	0	0
4	4	0	0	0	0
5	5	0	0	0	0
6	6	0	0	0	0
7	7	0	0	0	0
8	8	0	0	0	0
9	9	0	0	0	0
10	10	0	0	0	0
11	11	0	0	0	0
20	20	0	0	0	0
30	30	0	0	0	0
40	40	0	0	0	0
45	45	0	0	0	0
50	50	0	0	0	0
60	60	0	0	0	0
70	70	0	0	0	0
80	80	0	0	0	0
90	90	0	0	0	0
100	100	0	0	0	0
200	200	0	0	0	0
300	300	0	0	0	0
400	400	0	0	0	0
500	500	0	0	0	0

D. wt.	Grain.	Mites.	Parts.
1	16	0	0
3	8	0	0
5	16	0	0
6	8	0	0
8	16	0	0
10	8	0	0
11	16	0	0
13	8	0	0
15	16	0	0
16	8	0	0
18	8	0	0

d. w	Gr.	dt.
1	6	
2	12	
5		1
7	12	
10		2
12	12	
15		1
17	12	
1		

Gr.	Mit	Par
2	10	
5		
10		
15		
20		
1		
6		
11		
2		
1	10	
1		

18		
12		
6		
4		
2		
10		
6		24
3		12

Nineteen-penny weight. *At the* Ounce.

L. wt	Ounce	P.	Grains.	Mites.	Parts.			D. w.	Grains.	M.	Parts.
1	1	0	12	19	17			1	17	1	23
2	2	1	1	18	34			3	10	3	9
3	3	1	14	18	14			5	3	4	32
4	4	2	3	17	31			6	2	6	18
5	5	2	6	1	11			8	13	8	4
6	6	3	5	16	28			10	6	9	27
7	7	3	12	16	8			11	23	11	13
8	8	4	17	15	25			13	16	12	36
9	9	4	2[illegible]	15	5			15	9	14	22
10	10	5	9	14	22			17	2	16	8
11	11	5	[illegible]	4	2			18	19	17	31
20	20	10	[illegible]	9	7						
30	3[illegible]	1[illegible]	5	3	29						
40	41	1	14	[illegible]	14						
45	46	[illegible]	7	5	25						
50	51	7	[illegible]	12	36						
60	61	12	10	7	21						
70	71	7	0	2	6						
80	82	3	5	16	28						
90	92	8	15	11	13						
100	102	14	1	5	35						
200	205	8	2	11	33						
300	308	2	3	17	31						
400	410	6	5	3	29						
500	513	10	6	9	27						

d. w.	Gr.		Gr.	Mit.	Par.
1	6		2	11	13
2	12		5	2	26
5			10	5	15
7	12		15	8	4
10		dt.	20	10	30
12	12	1	1	13	19
15		1	6	16	8
17	12	1	11	18	34
1			2	1	3
	18		1	10	30
	12		1	0	20
	6		0	10	10
	4		0	6	31

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	1	1	1	18	34
2	2	2	3	17	31
3	3	3	5	16	28
4	4	4	7	15	25
5	5	5	9	14	22
6	6	6	11	13	19
7	7	7	13	12	16
8	8	8	15	11	13
9	9	9	17	10	10
10	10	10	19	9	7
11	11	11	21	8	4
20	21	1	14	18	14
30	31	12	10	7	21
40	42	3	5	16	28
45	47	8	15	11	
50	52	14	1	5	35
60	63	4	20	15	5
70	73	15	16	4	12
80	84	6	11	13	19
90	94	17	7	2	26
100	105	8	2	11	33
200	210	16	5	3	29
300	216	4	7	15	25
400	421	12	10	7	21
500	527	0	12	19	17

	D. wt.	Grains.	Mites.	Parts.
	1	18	3	98
	3	12	6	18
	5	6	9	27
	7	0	12	36
	8	18	16	8
	10	12	19	17
	12	7	2	26
	14	1	5	35
	15	19	9	7
	17	13	12	16
	19	7	15	25

dwt.	Gr.		Gr	Mit	Par
1	6		2	12	16
2	12		5	5	15
5			10	10	30
7	12		15	16	8
10		d.t	21	1	23
12	12	1	2	7	1
15		1	7	12	16
17	12	1	12	17	31
1			2	2	6
	18		1	11	23
	12		1	1	3
	6		0	10	20
	4		0	7	1
	2		0	3	19

One Ounce. *At the* Ounce.

L. wt	Ounc.	D. wt	Grai.	Mites	Parts
1	1	1	14	18	14
2	2	3	5	16	28
3	3	4	20	15	5
4	4	6	11	13	19
5	5	8	2	11	33
6	6	9	17	10	10
7	7	11	8	8	24
8	8	12	23	7	1
9	9	14	14	5	15
10	10	16	5	3	29
11	11	17	20	2	6
20	21	12	10	7	21
30	32	8	15	11	13
40	43	4	20	15	5
45	48	12	23	7	1
50	54	1	1	18	34
60	64	17	7	2	26
70	75	13	12	6	18
80	86	9	17	10	10
90	97	5	22	14	2
100	108	2	3	17	31
200	215	4	7	15	25
300	324	6	11	13	19
400	432	8	15	11	13
500	540	10	19	9	7

D. wt.	Grai.	Mites	Parts.
1	19	4	32
3	14	9	27
5	9	14	22
7	4	19	17
9	0	4	12
10	19	9	7
12	14	14	2
14	9	18	34
16	5	3	29
18	0	8	24
19	19	13	19

d. wt	Gr.		Gr.	it	Par
1	6		2	14	2
2	12		5	8	4
5			10	16	8
7	12		16	4	12
10		d.t	21	12	16
12	12	1	3	0	20
15		1	8	8	24
17	12	1	13	16	28
1			2	3	9
	18		1	12	16
	12		1	1	23
	6		0	10	30
	4			7	8
	2			3	22
	1			1	30

Two Ounces. *At the* Ounce.

L. wt.	Ounce.	D wt	Grains.	Mites.	Parts.
1	2	3	5	16	28
2	4	6	11	13	19
3	6	9	17	10	10
4	8	12	23	7	1
5	10	16	5	3	29
6	12	19	11	0	20
7	15	2	16	17	11
8	17	5	22	14	2
9	19	9	4	10	30
10	21	12	10	7	21
11	23	15	16	4	12
20	43	4	20	15	5
30	64	17	7	2	26
40	86	9	17	10	10
45	97	5	22	14	2
50	108	2	3	17	31
60	129	14	14	5	15
70	151	7	0	12	36
80	172	19	11	0	20
90	194	11	21	8	4
100	216	4	7	15	25

Ounce.	D wt.	Grains.	Mites.	Parts.
0	3	14	9	27
0	7	4	19	17
0	10	19	9	7
0	14	9	18	34
0	18	0	8	24
1	1	14	18	14
1	5	5	8	4
1	8	19	17	31
1	12	10	7	21
1	16	0	17	11
1	19	15	7	1

d w	Gr.	dw.	Gr.	Mit	Par
1	6	0	5	8	4
2	12	0	10	16	8
5		0	21	12	16
7	12	1	8	8	24
10		1	19	4	32
12	12	2	6	1	3
15		2	16	17	11
17	12	3	3	13	19
1			4	6	18
	18		3	4	32
	12		2	3	9
	6		1	1	23
	4		0	14	15
	2		0	7	8
	1		0	3	22

Three Ounces.

L. wt.	Ounc.	D. wt	Grai.	Mites	Parts
1	3	6	20	15	5
2	6	9	7	10	10
3	9	4	14	5	15
4	12	19	11	0	20
5	16	4	7	15	25
6	19	9	4	10	30
7	22	14	1	5	35
8	25	18	22	1	3
9	29	23	18	16	8
10	32	8	15	11	13
11	35	13	12	6	18
20	64	17	7	2	26
30	97	5	22	14	2
40	129	14	14	5	15
45	145	18	22	1	3
50	162	3	5	16	28
60	194	11	21	8	4
70	227	0	12	19	17
80	259	9	4	10	30
90	291	17	20	2	6
100	324	6	11	13	19

At the Ounce.

Ounce.	D. wt	Grai.	Mites	Parts
0	5	9	14	22
0	10	19	9	7
0	16	5	3	29
1	1	14	18	14
1	7	0	12	36
1	12	10	7	21
1	17	20	2	6
2	3	5	16	28
2	8	15	11	13
2	14	1	5	35
2	19	11	0	20

d. w	Gr.	Grai.	Mit	Part
1	6	8	2	6
2	12	16	4	12
5		8	8	24
7	12	0	12	36
10		16	17	11
12	12	9	1	23
15		1	5	35
17	12	17	10	10
1		6	9	27
	18	4	17	11
	12	3	4	32
	6	1	12	16
	4	1	1	23
	2	1	10	30
	1	0	5	15

d. w	Gr.
0	1
0	2
0	3
0	4

Four Ounces. *At the Ounce.*

L. wt.	Ounc.	D. wt.	Grains.	Mites.	Parts.
1	4	6	11	13	19
2	8	12	23	7	1
3	12	19	11	0	20
4	17	5	22	14	2
5	21	12	10	7	21
6	25	18	22	1	3
7	30	5	9	14	22
8	34	11	21	8	4
9	38	18	9	1	23
10	43	4	20	15	5
11	47	11	8	8	24
20	86	9	17	10	10
30	129	14	14	5	15
40	172	19	11	0	20
45	194	11	21	8	4
50	216	4	7	15	25
60	259	9	4	10	30
70	302	14	1	5	35
80	345	18	22	1	38
90	389	3	18	16	8
100	432	8	15	11	13

Ounce.	D. wt.	Grain.	Mites.	Parts.
0	7	4	19	17
0	14	9	18	34
1	1	14	18	14
1	8	19	17	31
1	16	0	17	11
2	3	5	16	28
2	10	10	16	8
2	17	15	15	25
3	4	20	15	5
3	12	1	14	22
3	19	6	14	2

d. w	Gr.	dw.	Gr.	Mit	Par
1	6	0	10	16	8
2	12	0	21	12	16
5		1	19	4	32
7	12	2	16	17	11
10		3	14	9	27
12	12	4	12	2	6
15		5	9	14	22
17	12	6	7	7	1
1		0	8	12	36
	18	0	6	9	27
	12	0	4	6	18
		0	2	3	9
		0	1	8	31
		0	0	14	16
		0	0	7	8

L. Wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	5	8	2	11	33
2	10	16	5	3	29
3	16	4	7	15	25
4	21	12	10	7	21
5	27	0	12	19	17
6	32	8	15	11	13
7	37	16	18	3	9
8	43	4	20	15	5
9	48	12	23	7	1
10	54	1	1	18	34
11	59	9	4	10	30
20	108	2	3	17	31
30	162	3	5	16	28
40	216	4	7	15	25
45	243	4	0	15	5
50	270	5	9	14	22
60	324	6	11	13	19
70	378	7	13	12	16
80	432	8	15	11	13
90	486	9	17	10	10
100	540	10	19	9	7

Ounce.	D. wt.	Grains.	Mites.	Parts.
0	9	0	4	12
0	18	0	8	24
1	7	0	12	36
1	16	0	17	11
2	5	1	1	23
2	14	1	5	35
3	3	1	10	10
3	12	1	14	22
4	1	1	18	34
4	10	2	3	9
4	19	2	7	21

d. w.	Gr.	d w.	Gr.	Mit	Par
1	6	0	13	10	10
2	12	1	3	0	20
5		2	6	1	3
7	12	3	9	1	23
10		4	12	2	6
12	12	5	15	2	26
15		6	18	3	9
17	12	7	21	3	29
1			10	16	8
	18		8	2	6
	12		5	8	4
	6		2	14	2
	4			16	
	2		1	18	1
	1			9	

Six Ounces. *At the* Ounce.

L wc.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	6	9	17	10	10
2	12	19	11	0	20
3	19	9	4	10	30
4	25	18	22	1	3
5	32	8	15	11	13
6	38	18	9	1	23
7	45	8	2	11	33
8	51	17	20	2	6
9	58	7	13	12	16
10	64	17	7	2	26
11	71	7	0	12	36
20	129	14	14	5	15
30	194	11	21	8	4
40	259	9	4	10	30
45	291	17	20	2	6
50	324	6	11	13	19
60	389	3	18	16	8
70	454	1	1	18	34
80	518	18	9	1	23
90	583	15	16	4	12
100	648	12	23	7	1

Ounce.	D. wt.	Grains.	Mites.	Parts.
0	10	19	9	7
1	1	14	18	14
1	12	10	7	21
2	3	5	16	28
2	14	1	5	35
3	4	20	15	5
3	15	16	4	12
4	6	11	13	19
4	17	7	2	26
5	8	2	11	33
5	18	22	1	3

dw	Gr.	dw.	Gr.	Mit	Par
1	6	0	16	4	12
2	12	1	8	8	24
5		2	16	17	11
7	12	4	1	5	35
10		5	9	14	22
12	12	6	18	3	9
15		8	2	11	33
17	12	9	11	0	20
1			12	19	17
	18		9	14	22
	12		6	9	27
	6		3	4	32
	4		2	3	9
	2		1	1	23
	1		0	10	36

L. Wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	7	11	8	8	24
2	15	2	16	17	11
3	22	14	1	5	35
4	30	5	9	14	22
5	37	16	18	3	9
6	45	8	2	11	33
7	52	19	11	0	20
8	60	10	19	9	7
9	68	2	3	17	31
10	75	13	12	6	18
11	83	4	20	15	5
20	151	7	0	12	36
30	227	0	12	19	17
40	302	14	1	5	35
45	340	10	19	9	7
50	378	7	13	12	16
60	454	1	1	18	34
70	529	14	14	5	15
80	605	8	2	11	33
90	681	1	14	18	14
100	756	15	3	4	32

Ounce.	D. w.	Grains.	Mites.	Parts.
0	12	14	14	2
1	5	5	8	4
1	17	20	2	6
2	10	10	16	8
3	3	1	1	10
3	15	16	4	12
4	8	6	18	14
5	0	21	12	16
5	13	12	6	18
6	6	3	0	20
6	18	17	14	22

d. w.	Gr.	Gr.	Mit.	Par.
1	6	0	18	18	14
2	12	1	13	16	28
5		3	3	13	19
7	12	4	17	10	10
10		6	7	7	1
12	12	7	21	3	29
15		9	11	0	20
17	12	11	0	17	11
1			15	2	26
	18		11	7	1
	12		7	11	13
	6		3	15	25
	4		2	10	17
	2		1	5	8
	1			12	22

L. wt.	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	8	12	23	7	1
2	17	5	22	14	2
3	25	18	22	1	3
4	34	11	21	8	4
5	43	4	20	15	5
6	51	17	20	2	6
7	60	10	19	9	7
8	69	3	18	16	8
9	77	16	18	3	9
10	86	9	17	10	10
11	95	2	16	17	11
20	172	19	11	0	20
30	259	9	4	10	30
40	345	18	22	1	38
45	389	3	18	16	8
50	432	8	15	11	13
60	518	18	9	1	23
70	605	2	2	11	33
80	691	17	20	2	6
90	778	7	13	21	16
100	864	17	7	2	26

Ounce.	D. wt.	Grains.	Mites.	Parts.
0	14	9	18	34
1	8	19	17	31
2	3	5	16	28
2	17	15	15	25
3	12	1	14	22
4	6	11	13	19
5	0	21	12	16
5	15	7	11	13
6	9	17	10	10
7	4	3	9	7
7	18	13	8	4

d. w.	Gr.	Mit.	Par.
1	6	12	16
2	12	4	32
5		9	27
7	12	14	22
10		19	17
12	12	4	12
15		9	7
17	12	14	2
1		5	35
	18	19	17
	12	12	36

Gr.	Mit.	Par.
21	12	16
19	4	32
14	9	27
9	14	22
4	19	17
0	4	12
19	9	7
14	14	2
17	5	35
12	19	17
8	12	36
4	6	18
2	17	24
1	8	31
0	14	15

Ounce.	D. wt.	Grains.	Mites.	Parts.
0	16	5	3	29
1	12	10	7	21
2	8	15	11	13
3	4	20	15	5
4	1	1	18	34
4	17	7	2	26
5	13	12	6	18
6	9	17	10	10
7	5	22	14	2
8	2	3	17	31
8	18	9	1	23

L. wt.	Ounce.	D. wt	Grains.	Mites.	Parts.
1	9	14	14	5	15
2	19	9	4	10	30
3	29	3	18	16	8
4	38	18	9	1	23
5	48	12	23	7	1
6	58	7	13	12	16
7	68	2	3	17	31
8	77	16	18	3	9
9	87	11	8	8	24
10	97	5	22	14	2
11	107	0	12	19	17
20	194	11	21	8	4
30	291	17	20	2	6
40	389	3	18	16	8
45	437	16	18	3	9
50	486	9	17	10	10
60	583	15	16	4	12
70	681	1	14	18	14
80	778	7	13	12	16
90	875	13	12	6	18
100	972	9	11	0	20

d. w	Gr.	d. w	Gr.	Mit	Par
1	6	1	0	6	18
2	12	2	0	12	6
5		4	1	5	35
7	12	6	1	18	34
10		8	2	11	33
12	12	10	3	4	32
15		12	3	17	31
17	12	14	4	10	30
1		0	19	9	7
	18	0	14	11	33
	12	0	9	14	22
		6	4	17	11
		4	3	4	32
		2	1	12	16

Ten Ounces. *At the* Ounce.

L. wt.	Ounc.	D. wt	Grai.	Mites	Parts
1	10	16	5	3	29
2	21	32	10	7	21
3	32	8	15	11	13
4	43	4	20	15	5
5	54	1	1	18	34
6	64	17	7	2	26
7	75	13	12	6	18
8	86	9	17	10	10
9	97	5	22	14	2
10	108	2	3	17	31
11	118	18	9	1	23
20	216	4	7	15	25
30	324	6	11	13	19
40	432	8	15	11	13
45	486	9	17	10	10
50	540	10	19	9	7
60	648	12	23	7	1
70	756	15	3	4	32
80	864	17	7	2	26
90	972	19	11	0	20

Ounce.	D. wt	Grai.	Mites	Parts
0	18	0	8	24
1	16	0	17	11
2	14	1	5	35
3	12	1	14	22
4	10	2	3	9
5	8	2	11	33
6	6	3	0	20
7	4	3	9	7
8	2	3	17	31
9	0	4	6	18
9	18	4	15	5

d. w	Gr.	d w	Gr.	Mit	Par
1	6	1	3	0	20
2	12	2	6	1	36
5		4	12	2	
7	12	6	18	3	9
10		9	0	4	12
12	12	11	6	5	15
15		13	12	6	18
17	12	15	18	7	21
1			21	12	16
	18		16	4	12
	12		10	16	8
	6		5	8	4
	4		3	12	3
	2		1	16	1
	1			18	

L. wt	Ounce.	D. wt.	Grains.	Mites.	Parts.
1	11	17	20	2	6
2	23	15	16	4	12
3	35	13	12	6	18
4	47	11	8	8	24
5	59	9	4	10	30
6	71	7	0	12	36
7	83	4	20	15	5
8	95	2	16	17	11
9	107	0	12	19	17
10	118	18	9	1	23
11	130	16	5	3	29
20	237	16	18	3	9
30	356	15	3	4	32
40	475	13	12	6	18
45	535	2	16	17	11
50	594	11	21	8	4
60	713	10	6	9	27
70	832	8	15	11	13
80	951	7	0	12	36

Ounce.	D. wt.	Grain.	Mites.	Parts.
0	19	19	13	19
1	19	15	7	1
2	19	11	0	20
3	19	6	14	2
4	19	2	7	21
5	18	22	1	3
6	18	17	14	22
7	18	13	8	4
8	18	9	1	23
9	18	4	15	5
10	18	0	8	24

d. wt.	Gr.	d. wt.	Gr.	Mit.	Par.
1	6	1	5	14	22
2	12	2	11	9	7
5		4	22	18	14
7	12	7	10	7	21
10		9	21	16	28
12	12	12	9	5	35
15		14	20	15	5
17	12	17	8	4	12
1		0	23	15	25
	18		17	16	28
	12		11	17	31
	6		5	18	34
	4		3	19	10
	2		1	19	24
	1		0	19	30

The Ordinary way.

Four Ingots of Silver.

D.wt.		*L.wt.Oz.D.wt.Gr.*
Better, 16 $\frac{1}{2}$	Num. 1. ——	40, 6, 10, 00.
Worſe, 11, $\frac{1}{2}$.	Num. 2. ——	37, 7, 5, 00.
Worſe, 15.	Num. 3. ——	36, 9, 10, 00.
Better, 10.	Num. 4. ——	38, 11, 00, 00.
		— 153. 10. 5. 00.

	Oz.	*D.wt.*	*Gra.*	*Mit.*
Betterneſs of Num. 1. ——	36,	3,	4,	4.
Betterneſs of Num. 4. ——	21,	0,	17,	6.
Whole betterneſs, ——	57,	3,	21,	10.

	Oz.	*D.wt.*	*Gra.*	*Mit.*
Worſneſs of Num. 2. ——	23,	7,	12,	5.
Worſneſs of Num. 3. ——	29,	16,	14,	18.
Whole worſneſs, ——	53,	4,	3,	3.
Worſneſs deducted out of the betterneſs, reſts	*Oz.* 3,	*D.wt.* 19,	*Gra.* 18,	*Mit.* 7.

So this —— 3 *Oz.* 19 *d.wt.* 18 *Gr.* 7 *Mit.*
Added to 153. l. *wt.* 10. — 5. ——

Makes the 4 Ingots to be Standard,	*l.wt.*	*Oz.*	*d.wt.*	*Gra.*	*Mit.*
	154,	2,	4,	18,	7.

Queſtions wrought by the GOLDEN *Rule.*

The Standard of Silver is xj. *Ounces* 2. *Penny-weight* fine.

A Silver Ingot weighing 40 l. *wt.* 6 *Ounces*, 10. d. *wt.* better 16. d. *weight* and a *half*. What will this amount to in Standard Silver?

The Work.

D.wt.		*L.wt.Oz.D.wt.Gra.Mit.*
222.	Z	40. 6. 10.
16½.		36. 3. 4. 4.
This		36 *Oz.* 3 d.*wt.* 4 *Gra.* 4 *Mit.*
Added to		40 l.*wt.* 6. 10. 00.
		L.wt.Oz.D.wt.Gra.Mit.
Maketh in Standard Silver,		43. 6. 13. 4. 4.

AN Ingot of Silver weighing 37 l. *wt.* 7. *Oz.* 5. d. *wt.* worſe 11. d. *weight*, and *a half*. How much of 14 *peny-weight* better, will make it good to the Standard of-- 11 *Oz.* 2 d. *weight*.

The Work.

	D.wt.		*L.wt.Oz.*	*D.wt.*	*Grs.*	*Mit.*
Worſe,	11½.	Z	37, 7,	5.	00.	
Better,	14.		30, 10,	13,	9,	8.

This is wrought by the backer Rule.

AN Ingot of Silver weighing 40 l.*wt.* 6. *Oz.* 10 d. *weight*, worse 18 d. *wt.* 12 *Grains*, How much is to be taken off and fined to 14 *Peny-weight* better, to make good the rest to the Standard of —— 11 *Oz.* 2 d. *weight*.

The Work

		L.wt.				
Worse, 18 $\frac{1}{2}$.	Z	8.	*Oz.*	*Dwt.*	*Gra.*	*Mit.*
Better, 14.		10,	6,	17,	3,	8

		Lwt.	Oz.	Dwt.	Gra.	Mit.
11. 16.	Z	10,	6,	17,	3.	8.
10. 3 $\frac{1}{2}$.		12,	3,	2,	8,	6.

L.wt.	Oz.	Dwt.	Gr.	Mit.
8.				
12,	3,	2,	8.	6,
20,	3.	2,	8,	6,

L.wt.	Oz.	Dwt.	Gr.	Mit.		L.wt.	Oz.	D.wt.	Gr.	Mit.
20,	3,	2,	8,	6.	Z	12.	3,	2,	8,	6.
40,	6,	10,	0.	——		24,	6,	7,	22.	
So there is to be fined,						24,	6,	7,	22.	
And the remain is ——						16,	0,	2,	2.	

The

The former Queſtion is reſolved another way.

The Work.

Ounce, D. wt.			*D. wt.*
10.	$3\frac{1}{2}$.	X	14.
11.	16.		18 and *a half.*

32 d. wt *and a half.*

Oz. D. wt.			*l. wt.*	*Oz.*	*d. wt.*	*Gra.*
10.	$3\frac{1}{2}$	Z	40,	6,	10,	00.
11.	2.		37,	1,	19,	4.
$32\frac{1}{2}$.		Z	37,	1,	19,	4.
14.			16,	0,	2,	2.

This 16 l. *wt.* 0 *Oz.* 2 d. *wt.* 2 *Gra.* to remain.

Oz. D. wt.			*l. wt.*	*Oz.*	*d. wt.*	*Gra.*
11.	16.	Z	40,	6,	10,	0.
11,	2,		43,	0,	3,	14 *gr.* and a *half.*

			L wt.	*Oz.*	*D wt.*	*Gra.*
32, and *a half,*		Z	43,	0,	3,	14.
18, and *a half,*			24,	6,	7,	22.
This			24,	6,	7,	22. is to be fined.

Silver.

Pound wt.	Silver. Half-penny weight.	Ounce.	Silver. Half-penny weight.
	. . . . .		. . . . .
1	0 2 7 0 2 7 0	1	0 0 2 2 5 2 2
2	0 5 4 0 5 4 0	2	0 0 4 5 0 4 5
3	0 8 1 0 8 1 1	3	0 0 6 7 5 6 7
4	1 0 8 1 0 8 1	4	0 0 9 0 0 9 0
5	1 3 5 1 3 5 1	5	0 1 1 2 6 1 2
6	1 6 2 1 6 2 1	6	0 1 3 5 1 3 5
7	1 8 9 1 8 9 2	7	0 1 5 7 6 5 7
8	2 1 6 2 1 6 2	8	0 1 8 0 1 8 0
9	2 4 3 2 4 3 2	9	0 2 0 2 7 0 3
D.wt.		Grain.	
	. . . . .		. . . . .
1	0 0 0 1 1 2 6	1	0 0 0 0 0 4 7
2	0 0 0 2 2 5 2	2	0 0 0 0 0 9 4
3	0 0 0 3 3 7 8	3	0 0 0 0 1 4 1
4	0 0 0 4 5 0 5	4	0 0 0 0 1 8 8
5	0 0 0 5 6 3 1	5	0 0 0 0 2 3 5
6	0 0 0 6 7 5 7	6	0 0 0 0 2 8 2
7	0 0 0 7 8 8 3	7	0 0 0 0 3 2 9
8	0 0 0 9 0 0 9	8	0 0 0 0 3 7 6
9	0 0 1 0 1 3 5	9	0 0 0 0 4 2 3

Dwt.	Gr.	Quar. of a Gr.	d. wt.	gr.	Quar. of a Gr.
		. . . . .			. . . . .
1	6	0 0 0 1 4 0 7	11	6	0 0 1 2 6 6 9
2	12	0 0 0 2 8 1 5	12	12	0 0 1 4 0 7 6
3	18	0 0 0 4 2 2 3	13	18	0 0 1 5 4 8 4
5	0	0 0 0 5 6 3 0	15	0	0 0 1 6 8 9 2
6	6	0 0 0 7 0 3 8	16	6	0 0 1 8 2 9 9
7	12	0 0 0 8 4 4 6	17	12	0 0 1 9 7 0 7
8	18	0 0 0 9 8 5 3	18	18	0 0 2 1 1 1 5
10	0	0 0 1 1 2 6 1			

Primes.	Peny wt	Seconds.	Peny wt Grains	Mites	Thirds	Grains	Mites	Fourth.	Mites
1	2	1	0. 4.	16	1	0. 9		1	1
2	4	2	0. 9.	12	2	0.19		2	2
3	6	3	0.14.	8	3	1. 9		3	3
4	8	4	0.19.	4	4	1.18		4	4
5	10	5	1.00.	0	5	2. 8		5	5
6	12	6	1. 4.	16	6	2.18		6	6
7	14	7	1. 9.	12	7	3. 7		7	7
8	16	8	1.14.	8	8	3.17		8	8
9	18	9	1.19.	4	9	4. 6		9	9

AN Addition for Silver after the rate of xj. *Ounces*, ij. *Penny-weight* fine, for the ordinary Rating.

☞

Droits.	1	5	5	0
Mites.	1	3	4	6	8	9	11	13	14	mi	16	18	19	1	2	4	6	7	9	10	12	14	15	17
		20	11	2	17	8				dr.	5	0	12	2	17	7	0	13	4	19	10	1	14	7

Grains	1	2	3	4	5	6	7	8	9	gr.	10	11	12	13	14	15	16	17	18	19	20	21	22	23
										(Grains.				1	1	1	1	1	1	1	1	1	1	1

Mites.	1	9	8	17	16	15	13	12	11	10	mi	10	8	7	6	5	4	3	2	0	0
Grains.	1	3	5	7	9	11	13	15	17	gr.	19	21	22	1	3	5	7	9	11	13	

D. wt.										Peny-weight.	0	0	0	1	1	1	1	1	1	1	
D. wt.	1	2	3	4	5	6	7	8	9	dr.	10	11	12	13	14	15	16	17	18	19	

Mites.	18	16	15	13	12	10	9	7	5	mi	4	7	11	15	19	2	6	10	14	18	16	14	12	9	7	5
Grains.	14	5	20	11	2	17	8	23	14	gr.	5	10	15	20	1	7	12	17	22	3	7	11	15	19	23	3
D. wt.	1	3	4	6	8	9	11	12	14	d.	16	12	8	4	1	17	13	9	5	2	4	6	8	10	12	15
										Ounce.																
Oun.	1	2	3	4	5	6	7	8	9		0	1	2	3	4	4	5	6	7	8	16	24	32	40	48	56
Oz.	10	20	30	40	50	60	70	80	90	100	200	300	400	500	600	700										

Note.

As ſo many *Penny-weight* is at the *Pound-weight*;
So many two *Grains* at the *Ounce*.

AS if the Aſſay be better *Two-penny* weight, the *Ounce* is —— 4 *Grains*.

If *Two-penny* weight and a *half*, the *Oz.* is —— 5 *Grains*.

If *Ten-penny* weight, the *Ounce* is 20 *Grains*.

If *Thirteen-penny* weight and a *half*, the *Ounce* is —— 27 *Grains*.

Here

Here followeth a TABLE to this purpoſe, to find what the *Ounces* ſhould be of Betterneſs or Worſeneſs.

At the Pound.		Ounces.									
		1		2		3		4		5	
D.	wt.	Grai.		Grai.		Dt.	Gr.	Dt.	Gr.	Dt.	Gr.
	1		2		4	0	6	0	8	0	10
	2		4		8	0	12	0	16	0	20
	3		6		12	0	18	1	0	1	6
	4		8		16	1	0	1	8	1	16
	5		10		20	1	6	1	16	2	2
	6		12	D. wt. 1		1	12	1		2	12
	7		14	1	4	1	18	2	8	2	22
	8		16	1	8	2		2	16	3	8
	9		18	1	12	2	6	3	0	3	18
	10		20	1	16	2	12	3	8	4	4
	11		22	1	20	2	18	3	16	4	14
	12	Penny-weight. 1	0	2		3		4		5	
	13	1	2	2	4	3	6	4	8	5	10
	14	1	4	2	8	3	12	4	16	5	20
	15	1	6	2	12	3	18	5		6	6
	16	1	8	2	16	4		5	8	6	16
	17	1	10	2	20	4	6	5	16	7	2
	18	1	12	3		4	12	6		7	12
	19	1	14	3	4	4	18	6	8	7	22
Oz. 1	0	1	16	3	8	5		6	16	8	8
1	1	1	18	3	12	5	6	7		8	18
1	2	1	20	3	16	5	12	7	8	9	4
1	3	1	22	3	20	5	18	7	16	9	14
1	4	2		4		6		8		10	
1	5	2	2	4	4	6	6	8	8	10	10
1	6	2	4	4	8	6	12	8	16	10	20

At the Pound.	Ounces.													
	6		7		8		9		10		11		½.	
D. wt.	D.	Gr	D.	Gr.	D.	Gr.	D.	Gr.	D.	Gr	D.	Gr	Gr.	
1	0	12	0	14		16		18	0	20	0	22	1	
2	1		1	4	1	8	1	12	1	16	1	20	2	
3	1	12	1	18	2		2	6	2	12	2	18	3	
4	2			8	2	16	3		3	8	3	16	4	
5	2	12	2	22	3	8	3	18	4	4	4	14	5	
6	3		3	12	4		4	12	5		5	12	6	
7	3	12	4	2	4	16	5	6	5	20	6	10	7	
8	4		4	16	5	8	6		6	16	7	8	8	
9	4	12	5	6	6		6	18	7	12	8	6	9	
10	5		5	20	6	16	7	12	8	8	9	4	10	
11	5	12	6	10	7	8	8	6	9	4	10	2	11	
12	6		7		8		9		10		11		12	
13	6	12	7	14	8	16	9	18	10	20	11	22	13	
14	7		8	4	9	8	10	12	11	16	12	20	14	
15	7	12	8	18	10		11	6	12	12	13	18	15	
16	8		9	8	10	16	12		13	8	14	16	16	
17	8	12	9	22	11	8	12	18	14	4	15	14	17	
18	9		10	12	12		13	12	15		16	12	18	
Oz. 19	9	12	11	2	12	16	14	6	15	20	17	10	19	
1 0	10		11	16	13	8	15		16	16	18	8	20	
1 1	10	12	12	6	14		15	18	17	12	19	6	21	
1 2	11		12	20	14	16	16	12	18	8	20	4	Dwt. 22	
1 3	11	12	13	10	15	8	17	6	19	4	21	2	23	
1 4	12		14		16		18		20		22		1	0
1 5	12	12	14	14	16	16	18	18	20	20	22	22	1	1
1 6	13		15	4	17	8	19	12	21	16	23	20	1	2

At the Pound.	Ounces.											
	1		2		3		4		5		6	
D.wt.	D.	Gr.	D.	Gr.	Dt.	G.	Dt.	Gr.	Dt.	Gr.	D.t	Gr.
½		1		2		3		4		5	0	6
1 ½		3		6		9		12		15	0	18
2 ½		5		10		15		20	D.wt	1	1	6
3 ½		7		14		21	1	4	1	11	1	18
4 ½		9		18	D.wt.	3	1	12	1	21	2	6
5 ½		11		22	1	9	1	20	2	7	2	18
6 ½		13	D.wt	2	1	15	2	4	2	17	3	6
7 ½		15	1	6	1	21	2	12	3	3	3	18
8 ½		17	1	10	2	3	2	20	3	13	4	6
9 ½		19	1	14	2	9	3	4	3	23	4	18
10 ½		21	1	18	2	15	3	12	4	9	5	6
11 ½		23	1	22	2	21	3	20	4	19	5	18
12 ½	Penny-weight	1	2	2	3	3	4	4	5	5	6	6
13 ½		3	2	6	3	9	4	12	5	15	6	18
14 ½		5	2	10	3	15	4	20	6	1	7	6
15 ½		7	2	14	3	21	5	4	6	11	7	18
16 ½		9	2	18	4	3	5	12	6	21	8	6
17 ½		11	2	22	4	9	5	20	7	7	8	18
18 ½		13	3	2	4	15	6	4	7	17	9	6
19 ½		15	3	6	4	21	6	12	8	3	9	18
Oz. 1 0 ½		17	3	10	5	3	6	20	8	13	10	6
1 1 ½		19	3	14	5	9	7	4	8	23	10	18
1 2 ½		21	3	18	5	15	7	12	9	9	11	6
1 3 ½		23	3	22	5	21	7	20	9	19	11	18
1 4 ½		1	4	2	6	3	8	4	10	5	12	6

At the Pound.	Ounces.														½.	
	7		8		9		10		11							
D. wt.	D.	Gr	D.	Gr.	Dr.	Gr.	Dr	Gr.	Dr	Gr.					Gr.	Mit.
	½	Dar	7	0	8	0	9	0	10	0	11				0	10
1	½	21	1	0	1	3	1	6	1	9					1	10
2	½	1	11	1	16	1	21	2	2	2	7				2	10
3	½	2	1	2	8	2	15	2	22	3	5				3	10
4	½	2	15	3		3	9	3	18	4	3				4	10
5	½	3	5	3	16	4	3	4	14	3	1				5	10
6	½	3	19	4	8	4	21	5	10	5	23				6	10
7	½	4	9	5		5	15	6	6	6	21				7	10
8	½	4	23	5	16	6	9	7	2	7	19				8	10
9	½	5	13	6	8	7	3	7	22	8	17				9	10
10	½	6	3	7		7	21	8	18	9	15				10	10
11	½	6	17	7	16	8	15	9	14	10	13				11	10
12	½	7	7	8	8	9	9	10	10	11	11				12	10
13	½	7	21	9		10	3	11	6	12	9				13	10
14	½	8	11	9	16	10	21	12	2	13	7				14	10
15	½	9	1	10	8	11	15	12	22	14	5				15	10
16	½	9	15	11		12	9	13	18	15	3				16	10
17	½	10	5	11	16	13	3	14	14	16	1				17	10
18	½	10	19	12	8	13	21	15	10	16	23				18	10
19	½	11	9	13		14	15	16	6	17	21				19	10
1 0	½	11	23	13	16	15	9	17	2	18	19				20	10
1 1	½	12	13	14	8	16	3	17	22	19	17				21	10
1 2	½	13	3	15		16	21	18	18	20	15				22	10
1 3	½	13	17	15	16	17	15	19	14	21	13				23	10
1 4	½	14	7	16	8	18	9	20	10	22	11				1 00	10

Oz.

Dr.

AN Ingot of Silver, —— 40 *Pound weight.*
The Standard, —— 42 *L.wt.* - 1 *Ounce.*
18 *D.wt.* —— 22 *Grains.*
What is the Assay?

The Work.

L.wt.Oz.D.w.Grs.	*l wt.Oz d.wt.Gr.*		*d.wt.*
42. 1, 18, 22.	42, 1, 18, 22	Z	222.
40.	2, 1, 18, 22		12.
2, 1, 18, 22.			

L.wt.Oz.D.wt.Gr.
The Standard ——— 42, 1, 18, 22.
The fineneſs better ——— 12 *Peny-weight.*
What is the groſs weight?

The Work.

D.wt.		*L.wt.Oz.D.wt.Grs.*
234.	Z	42, 1, 18, 22.
222.		40, l. *weight.*

The

The Ingot better —— 12 *Penny-weight.*
The groſs weight 40 *Pound weight.*
What is the Standard?

The Work.

D.wt.		*L.wt. Oz. D.wt. Gra.*
222.	Z	40.
12.		2. 1, 18, 22.

This —— 2. l.*wt.* 1 *Oz.* 18 d.*wt.* 22 *Gra.*
Added to the —— 40 l. *weight.*
Makes 42. l.*wt.* 1, *Oz.* 18. d.*wt.* 22. *Gra;*
(Standard.

A Pot of Silver Ingots —— 500 } —— 504, l.*wt.*
Allay, —— 4 }

If the —— 4, *Pound* weight of Allay were left out, what ſhould be the pot aſſay.

The Work.

L.wt.		*D.wt.*
500	Z	222.
504		223. 18, *Gra.* 12, *Mit.* $\frac{14}{13}$.

The pot Aſſay ſhould be better —— } d.*wt.* *Gra.* *Mit.*
1. 18. 12. $\frac{13}{25}$.

A Pot of Silver Ingots —— 500 *L.wt.*
The allay rated to —— 4 l.*wt.*

504.

This Pot was molt and caſt out, but afterwards upon review, was found to have 2 l.*wt.* of Allay too much. How much ſhould the Pot aſſay come ſhort?

The Work.

L.wt.		
502	Z	222 *D.wt.*
504	Z	221 d.*wt.* 2 *Grs.* $\frac{6}{7}$.

So the Pot aſſay ſhould be worſe, —— 21 *Gr.* $\frac{1}{2}$. wrought by the backer Rule.

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500 *L.wt.* of Silver worſe, -- 1 *D.wt.* 12 *Grs.*
How much Silver of —— 14 d.*weight* better, makes it Standard.

The Work.

L.wt.	*D.wt.*		*D.wt.*	l.*wt.* *Oz.* d.*wt.* *Gr.*
1.	Z 1 $\frac{1}{2}$.		14.	Z 1.
500.	Z 750		750.	53. 6, 17, 3 $\frac{3}{7}$.

How much Silver of —— 13 *Peny-weight* better, will carry away —— 1 l.*weight* 3 *Ounces* 10 d.*wt.* of allay.

The

D.wt.	L.wt.	D.w.Gra.	L.wt.Oz.
222	1.	14. 1 $\frac{11}{37}$	1, 0.
13	14 d. 1 gr. $\frac{8}{37}$.	1 l. 3, oz. 10 d.	22. —
			(13 d. wt. 20 gr. $\frac{4}{11}$.

The same Questions may be wrought thus.

L.wt Oz. Gr.	D.wt. Gr.	D.wt. Gr.	L.wt. Oz.
1.	222.	13.	1. 0.
1, 3, 10	286, 18.	286. 18.	22. 0. —
			(13 d. wt. 20, Gr. $\frac{6}{28}$

	L.wt.	Oz.	D.wt.	Gra.	
So —	22.	00.	13.	20. $\frac{2}{11}$.	being 13 d. better
And —	1.	3.	10.	00.	of Allay.
Makes	23.	4.	3.	20. $\frac{4}{12}$.	Standard.

FINIS.

Here followeth TABLES for the caſting up of GOLD, to the Standard of xxij. *Carracts*.

Parts.	Mite.	Grai.
		1
		2
		4
		5
		6
		8
		9
		10
		12
		13
		15

Part.	Mite.	Grai.
3	2	1
19	3	1
12	5	1

d.wt.	Grai.	
16	6	
17	12	
18	18	
		gr.
xvj		gr.
viij		gr.
iiij		gr.
ij		gr.
j		gr.

Parts.	Mite.	Grai.	D.wt.	L.wt.
6	7	16	0	1
12	14	8	1	2
18	1	1	2	3
2	9	17	2	4
8	16	9	3	5
14	3	2	4	6
20	10	18	4	7
4	18	10	5	8
10	5	3	6	9
16	12	19	6	10
0	0	12	7	11
5	7	15	8	12
11	14	10	9	13
17	1	18	10	14
23	8	5	11	15
9	16	1	12	16
15	3	8	13	17
21	10	4	14	18
7	17	12	15	19
13	5	19	16	20
19	12	15	17	21
1	19	11	18	22
7	6	18	19	23
13	13	14	20	24
19	20	1	21	25
2	8	17	22	26
8	15	13	23	27
14	2	20	24	28
20	9	16	25	29
3	17	4	26	30
9	4	0	27	31
15	11	7	28	32
21	18	3	29	33
8	6	10	30	34
14	13	6	31	35
20	20	2	32	36
4	8	19	33	37
10	15	15	34	38
16	2	12	35	39
22	9	8	36	40
9	17	5	37	41
15	4	1	38	42
21	11	18	39	43
7	18	14	40	44
13	6	11	41	45
19	13	7	42	46
1	20	4	43	47
6	8	0	44	48
12	15	17	45	49
18	2	13	46	50
0	10	10	47	51
5	17	6	48	52
11	4	3	49	53
17	11	19	50	54
23	18	16	51	55
10	6	12	52	56
16	13	9	53	57
22	20	5	54	58
5	8	2	55	59
11	15	18	56	60
17	2	15	57	61
23	10	11	58	62
10	17	8	59	63
16	4	4	60	64
22	11	1	61	65
9	18	17	62	66
15	6	14	63	67
21	13	10	64	68
7	20	7	65	69
13	8	3	66	70
19	15	0	67	71
1	22	16	68	72
6	10	13	69	73
12	17	9	70	74
18	4	6	71	75
0	12	2	72	76
5	19	19	73	77
11	6	15	74	78
17	13	12	75	79
23	20	8	76	80
10	8	5	77	81
16	15	1	78	82
22	2	18	79	83
9	10	14	80	84
15	17	11	81	85
21	4	7	82	86
7	12	4	83	87
13	19	0	84	88
19	6	17	85	89
1	14	13	86	90
6	1	10	87	91
12	8	6	88	92
18	15	3	89	93
0	22	19	90	94
5	10	16	91	95
11	17	12	92	96
17	4	9	93	97
23	12	5	94	98
10	19	2	95	99
16	6	18	96	100
22	13	15	97	101
9	20	11	98	102
15	8	8	99	103
21	15	4	100	104
7	22	1	101	105
13	10	18	102	106
19	17	14	103	107
1	5	11	104	108
6	12	7	105	109
12	19	4	106	110
18	6	0	107	111
0	14	17	108	112
5	1	13	109	113
11	8	10	110	114
17	15	6	111	115
23	2	3	112	116
10	10	19	113	117
16	17	16	114	118
22	4	12	115	119
9	12	9	116	120
15	19	5	117	121
21	6	2	118	122
7	14	18	119	123
13	1	15	120	124
19	8	11	121	125
1	16	8	122	126
6	3	4	123	127
12	10	1	124	128
18	17	17	125	129
0	5	14	126	130
5	12	10	127	131
11	19	7	128	132
17	7	3	129	133
23	14	0	130	134
10	21	16	131	135
16	9	13	132	136
22	16	9	133	137
9	23	6	134	138
15	11	2	135	139
21	18	19	136	140
7	1	15	137	141
13	8	12	138	142
19	15	8	139	143
1	23	5	140	144
6	13	1	141	145
12	20	18	142	146
18	7	14	143	147
0	15	11	144	148
5	22	7	145	149
11	10	4	146	150
17	17	0	147	151
23	5	17	148	152
10	12	13	149	153
16	19	10	150	154
22	7	6	151	155
9	14	3	152	156
15	21	19	153	157
21	9	16	154	158
7	16	12	155	159
13	3	9	156	160
19	10	5	157	161
1	18	2	158	162
6	5	18	159	163
12	12	15	160	164
18	19	11	161	165
0	7	8	162	166
5	14	4	163	167
11	21	1	164	168
17	9	17	165	169
23	16	14	166	170
10	23	10	167	171
16	11	7	168	172
22	18	3	169	173
9	1	0	170	174
15	8	16	171	175
21	15	13	172	176
7	23	9	173	177
13	13	6	174	178
19	20	2	175	179
1	8	19	176	180
6	15	15	177	181
12	2	12	178	182
18	9	8	179	183
0	17	5	180	184
5	4	1	181	185
11	11	18	182	186
17	18	14	183	187
23	6	11	184	188
10	13	7	185	189
16	20	4	186	190
22	8	0	187	191
9	15	17	188	192
15	22	13	189	193
21	10	10	190	194
7	17	6	191	195
13	4	3	192	196
19	11	19	193	197
1	19	16	194	198
6	6	12	195	199
12	13	9	196	200
18	20	5	197	201
0	8	2	198	202
5	15	18	199	203
11	2	15	200	204
17	10	11	201	205
23	17	8	202	206
10	4	4	203	207
16	12	1	204	208
22	19	17	205	209
9	6	14	206	210
15	13	10	207	211
21	20	7	208	212
7	8	3	209	213
13	15	0	210	214
19	22	16	211	215
1	10	13	212	216
6	17	9	213	217
12	4	6	214	218
18	12	2	215	219
0	19	19	216	220
5	6	15	217	221
11	13	12	218	222
17	20	8	219	223
23	8	5	220	224
10	15	1	221	225
16	22	18	222	226
22	10	14	223	227
9	17	11	224	228
15	4	7	225	229
21	11	4	226	230
7	18	0	227	231
13	6	17	228	232
19	13	13	229	233
1	20	10	230	234
6	8	6	231	235
12	15	3	232	236
18	22	19	233	237
0	10	16	234	238
5	17	12	235	239
11	4	9	236	240
17	12	5	237	241
23	19	2	238	242
10	6	18	239	243
16	13	15	240	244
22	20	11	241	245
9	8	8	242	246
15	15	4	243	247
21	22	1	244	248
7	10	18	245	249
13	17	14	246	250
19	4	11	247	251
1	12	7	248	252
6	19	4	249	253
12	6	0	250	254
18	13	17	251	255
0	20	13	252	256
5	8	10	253	257
11	15	6	254	258
17	22	3	255	259
23	10	19	256	260
10	17	16	257	261
16	4	12	258	262
22	12	9	259	263
9	19	5	260	264
15	6	2	261	265
21	13	18	262	266
7	20	15	263	267
13	8	11	264	268
19	15	8	265	269
1	23	4	266	270
6	13	1	267	271
12	20	17	268	272
18	7	14	269	273
0	15	10	270	274
5	22	7	271	275
11	10	3	272	276
17	17	0	273	277
23	5	16	274	278
10	12	13	275	279
16	19	9	276	280
22	7	6	277	281
9	14	2	278	282
15	21	19	279	283
21	9	15	280	284
7	16	12	281	285
13	3	8	282	286
19	10	5	283	287
1	18	1	284	288
6	5	18	285	289
12	12	14	286	290
18	19	11	287	291
0	7	7	288	292
5	14	4	289	293
11	21	0	290	294
17	9	17	291	295
23	16	13	292	296
10	23	10	293	297
16	11	6	294	298
22	18	3	295	299
9	1	19	296	300
15	8	16	297	301
21	15	12	298	302
7	23	9	299	303
13	13	5	300	304
19	20	2	301	305
1	8	18	302	306
6	15	15	303	307
12	2	11	304	308
18	9	8	305	309
0	17	4	306	310
5	4	1	307	311
11	11	17	308	312
17	18	14	309	313
23	6	10	310	314
10	13	7	311	315
16	20	3	312	316
22	8	0	313	317
9	15	16	314	318
15	22	13	315	319
21	10	9	316	320
7	17	6	317	321
13	4	2	318	322
19	11	19	319	323
1	19	15	320	324
6	6	12	321	325
12	13	8	322	326
18	20	5	323	327
0	8	1	324	328
5	15	18	325	329
11	2	14	326	330
17	10	11	327	331
23	17	7	328	332
10	4	4	329	333
16	12	0	330	334
22	19	17	331	335
9	6	13	332	336
15	13	10	333	337
21	20	6	334	338
7	8	3	335	339
13	15	0	336	340
19	22	16	337	341
1	10	13	338	342
6	17	9	339	343
12	4	6	340	344
18	12	2	341	345
0	19	19	342	346
5	6	15	343	347
11	13	12	344	348
17	20	8	345	349
23	8	5	346	350
10	15	1	347	351
16	22	18	348	352
22	10	14	349	353
9	17	11	350	354
15	4	7	351	355
21	11	4	352	356
7	18	0	353	357
13	6	17	354	358
19	13	13	355	359
1	20	10	356	360
6	8	6	357	361
12	15	3	358	362
18	22	19	359	363
0	10	16	360	364
5	17	12	361	365
11	4	9	362	366
17	12	5	363	367
23	19	2	364	368
10	6	18	365	369
16	13	15	366	370
22	20	11	367	371
9	8	8	368	372
15	15	4	369	373
21	22	1	370	374
7	10	18	371	375
13	17	14	372	376
19	4	11	373	377
1	12	7	374	378
6	19	4	375	379
12	6	0	376	380
18	13	17	377	381
0	20	13	378	382
5	8	10	379	383
11	15	6	380	384
17	22	3	381	385
23	10	19	382	386
10	17	16	383	387
16	4	12	384	388
22	12	9	385	389
9	19	5	386	390
15	6	2	387	391
21	13	18	388	392
7	20	15	389	393
13	8	11	390	394
19	15	8	391	395
1	23	4	392	396
6	13	1	393	397
12	20	17	394	398
18	7	14	395	399
0	15	10	396	400
5	22	7	397	401
11	10	3	398	402
17	17	0	399	403
23	5	16	400	404
10	12	13	401	405
16	19	9	402	406
22	7	6	403	407
9	14	2	404	408
15	21	19	405	409
21	9	15	406	410
7	16	12	407	411
13	3	8	408	412
19	10	5	409	413
1	18	1	410	414
6	5	18	411	415
12	12	14	412	416
18	19	11	413	417
0	7	7	414	418
5	14	4	415	419
11	21	0	416	420
17	9	17	417	421
23	16	13	418	422
10	23	10	419	423
16	11	6	420	424
22	18	3	421	425
9	1	19	422	426
15	8	16	423	427
21	15	12	424	428
7	23	9	425	429
13	13	5	426	430
19	20	2	427	431
1	8	18	428	432
6	15	15	429	433
12	2	11	430	434
18	9	8	431	435
0	17	4	432	436
5	4	1	433	437
11	11	17	434	438
17	18	14	435	439
23	6	10	436	440
10	13	7	437	441
16	20	3	438	442
22	8	0	439	443
9	15	16	440	444
15	22	13	441	445
21	10	9	442	446
7	17	6	443	447
13	4	2	444	448
19	11	19	445	449
1	19	15	446	450
6	6	12	447	451
12	13	8	448	452
18	20	5	449	453
0	8	1	450	454
5	15	18	451	455
11	2	14	452	456
17	10	11	453	457
23	17	7	454	458
10	4	4	455	459
16	12	0	456	460
22	19	17	457	461
9	6	13	458	462
15	13	10	459	463
21	20	6	460	464
7	8	3	461	465
13	15	0	462	466
19	22	16	463	467
1	10	13	464	468
6	17	9	465	469
12	4	6	466	470
18	12	2	467	471
0	19	19	468	472
5	6	15	469	473
11	13	12	470	474
17	20	8	471	475
23	8	5	472	476
10	15	1	473	477
16	22	18	474	478
22	10	14	475	479
9	17	11	476	480
15	4	7	477	481
21	11	4	478	482
7	18	0	479	483
13	6	17	480	484
19	13	13	481	485
1	20	10	482	486
6	8	6	483	487
12	15	3	484	488
18	22	19	485	489
0	10	16	486	490
5	17	12	487	491
11	4	9	488	492
17	12	5	489	493
23	19	2	490	494
10	6	18	491	495
16	13	15	492	496
22	20	11	493	497
9	8	8	494	498
15	15	4	495	499
21	22	1	496	500
7	10	18	497	501
13	17	14	498	502
19	4	11	499	503
1	12	7	500	504
6	19	4	501	505
12	6	0	502	506
18	13	17	503	507
0	20	13	504	508
5	8	10	505	509
11	15	6	506	510
17	22	3	507	511
23	10	19	508	512
10	17	16	509	513
16	4	12	510	514
22	12	9	511	515
9	19	5	512	516
15	6	2	513	517
21	13	18	514	518
7	20	15	515	519
13	8	11	516	520
19	15	8	517	521
1	23	4	518	522
6	13	1	519	523
12	20	17	520	524
18	7	14	521	525
0	15	10	522	526
5	22	7	523	527
11	10	3	524	528
17	17	0	525	529
23	5	16	526	530
10	12	13	527	531
16	19	9	528	532
22	7	6	529	533
9	14	2	530	534
15	21	19	531	535
21	9	15	532	536
7	16	12	533	537
13	3	8	534	538
19	10	5	535	539
1	18	1	536	540
6	5	18	537	541
12	12	14	538	542
18	19	11	539	543
0	7	7	540	544
5	14	4	541	545
11	21	0	542	546
17	9	17	543	547
23	16	13	544	548
10	23	10	545	549
16	11	6	546	550
22	18	3	547	551
9	1	19	548	552
15	8	16	549	553
21	15	12	550	554
7	23	9	551	555
13	13	5	552	556
19	20	2	553	557
1	8	18	554	558
6	15	15	555	559
12	2	11	556	560
18	9	8	557	561
0	17	4	558	562
5	4	1	559	563
11	11	17	560	564
17	18	14	561	565
23	6	10	562	566
10	13	7	563	567
16	20	3	564	568
22	8	0	565	569
9	15	16	566	570
15	22	13	567	571
21	10	9	568	572
7	17	6	569	573
13	4	2	570	574
19	11	19	571	575
1	19	15	572	576
6	6	12	573	577
12	13	8	574	578
18	20	5	575	579
0	8	1	576	580
5	15	18	577	581
11	2	14	578	582
17	10	11	579	583
23	17	7	580	584
10	4	4	581	585
16	12	0	582	586
22	19	17	583	587
9	6	13	584	588
15	13	10	585	589
21	20	6	586	590
7	8	3	587	591
13	15	0	588	592
19	22	16	589	593
1	10	13	590	594
6	17	9	591	595
12	4	6	592	596
18	12	2	593	597
0	19	19	594	598
5	6	15	595	599
11	13	12	596	600
17	20	8	597	601
23	8	5	598	602
10	15	1	599	603
16	22	18	600	604
22	10	14	601	605
9	17	11	602	606
15	4	7	603	607
21	11	4	604	608
7	18	0	605	609
13	6	17	606	610
19	13	13	607	611
1	20	10	608	612
6	8	6	609	613
12	15	3	610	614
18	22	19	611	615
0	10	16	612	616
5	17	12	613	617
11	4	9	614	618
17	12	5	615	619
23	19	2	616	620
10	6	18	617	621
16	13	15	618	622
22	20	11	619	623
9	8	8	620	624
15	15	4	621	625
21	22	1	622	626
7	10	18	623	627
13	17	14	624	628
19	4	11	625	629
1	12	7	626	630
6	19	4	627	631
12	6	0	628	632
18	13	17	629	633
0	20	13	630	634
5	8	10	631	635
11	15	6	632	636
17	22	3	633	637
23	10	19	634	638
10	17	16	635	639
16	4	12	636	640
22	12	9	637	641
9	19	5	638	642
15	6	2	639	643
21	13	18	640	644
7	20	15	641	645
13	8	11	642	646
19	15	8	643	647
1	23	4	644	648
6	13	1	645	649
12	20	17	646	650
18	7	14	647	651
0	15	10	648	652
5	22	7	649	653
11	10	3	650	654
17	17	0	651	655
23	5	16	652	656
10	12	13	653	657
16	19	9	654	658
22	7	6	655	659
9	14	2	656	660
15	21	19	657	661
21	9	15	658	662
7	16	12	659	663
13	3	8	660	664
19	10	5	661	665
1	18	1	662	666
6	5	18	663	667
12	12	14	664	668
18	19	11	665	669
0	7	7	666	670
5	14	4	667	671
11	21	0	668	672
17	9	17	669	673
23	16	13	670	674
10	23	10	671	675
16	11	6	672	676
22	18	3	673	677
9	1	19	674	678
15	8	16	675	679
21	15	12	676	680
7	23	9	677	681
13	13	5	678	682
19	20	2	679	683
1	8	18	680	684
6	15	15	681	685
12	2	11	682	686
18	9	8	683	687
0	17	4	684	688
5	4	1	685	689
11	11	17	686	690
17	18	14	687	691
23	6	10	688	692
10	13	7	689	693
16	20	3	690	694
22	8	0	691	695
9	15	16	692	696
15	22	13	693	697
21	10	9	694	698
7	17	6	695	699
13	4	2	696	700
19	11	19	697	701
1	19	15	698	702
6	6	12	699	703
12	13	8	700	704
18	20	5	701	705
0	8	1	702	706
5	15	18	703	707
11	2	14	704	708
17	10	11	705	709
23	17	7	706	710

Half a Grain. *At the Ounce.*

Parts.	Mite	Grai.	D.wt.
12	14	2	0
2	9	5	0
14	3	8	0
4	18	10	0
16	12	13	0
6	7	16	0
18	1	19	0
8	16	21	0
20	10	0	1
10	5	3	1
0	0	6	1

Parts.	Mite.	Grai.	D.wt.
12	14	8	1
2	9	17	2
14	3	2	4
4	18	10	5
16	12	19	6
6	7	4	8
18	1	13	9
8	16	21	10
20	10	6	12
10	5	15	13
0	0	0	15
20	10	6	1
8	16	21	2

L.wt.	D.wt.	Grai.
1	1	6
2	2	12
3	3	18
4	5	
5	6	6
6	7	12
7	8	18
8	10	
9	11	6
10	12	12
11		
20		
30		

Grai.	D.wt.
12	13
6	15
12	16
18	17
	18
gr.	xvj
gr.	viij
gr.	iiij
gr.	ij
gr.	j

Parts.	Mite.	Grai.
9	3	0
18	6	0
5	10	0
14	13	0
1	17	0
10		1
19	3	1
6	7	1
15	10	1
2	14	1

Parts.	Mite.	Grai.
11	17	1
20	0	2
7	4	2
16	7	2
3	14	2
pt.	mi	
18	1	
20		
10		
5		
2		

Parts.	Mite.	Grai.	D. wt.
18	1	4	0
14	3	8	0
10	5	12	0
6	7	16	0
2	9	20	0
20	10	0	1
16	12	4	1
22	14	8	1
8	16	12	1
4	18	16	1
0	0	21	1

Parts.	Mite.	Grai.
5	1	2
8	3	3
10	6	3
13	11	3
15	16	3
pt.	mi	
16	2	
8	1	
15	0	
7	0	
3	0	

Grai.	D. wt.
18	13
6	15
12	16
18	17
	18
gr.	xvj
gr.	viij
gr.	iiij
gr.	ij
gr.	j

Parts.	Mite.	Grai.	D wt.
18	1	1	2
14	3	2	4
10	5	3	6
6	7	4	8
2	9	5	10
20	10	6	12
16	12	7	14
12	14	8	16
8	16	9	18
4	18	10	0
0	0	12	2
8	0	21	0
12	1	8	1

Outc.	L. wt.
0	1
0	2
0	3
0	4
0	5
0	6
0	7
0	8
0	9
1	10
1	11
2	20
3	30

Parts.	Mite.	Grai.	D. wt.
2	5	0	1
5	7	0	2
7	10	1	3
10	12	1	4
12	15	1	5
15	17	1	6
17	20	2	7
20	0	2	8
0	3	2	9
3		2	10
			11
			12

One Grain *At the* Ounce.

Parts.	Mites.	Grai.	D.wt.
2	9	5	0
4	18	10	0
6	7	16	0
8	16	1	1
10	5	7	1
12	14	13	1
14	3	19	1
16	12	2	2
18	1	8	2
20	10	14	2
0	0	0	2

Part.	Mite.	Grai.
0	15	3
18	1	4
14	8	4
10	15	4
6	2	5
mi pt.		
3 14		
1 18		
0 20		
0 10		
0 5		

Grai.	d. wt.
18	13
6	15
12	16
18	17
	18
gr.	
xvj	
viij	
iiij	
ij	
j	

Parts.	Mites.	Grai.	D.wt.	Ounc.
4	19	17	2	0
6	18	10	5	0
8	7	4	8	0
10	16	21	10	0
12	5	15	13	0
14	14	8	16	0
16	3	2	19	0
18	12	19	1	1
20	1	13	4	1
0	10	6	7	1
	0	0	10	1
	1	13	14	2
	12	7	18	4

Part.	Mite.	Gr.	Grai.	d. wt.
8	6	0	6	1
14	13	1	12	2
0	0	1	18	3
6	7	1	6	5
2	14	2	12	6
10	1	2	18	7
16	7	2	6	8
12	14	3	12	10
8	1	3	18	11
4	8	3	6	12

L.wt.
1
2
3
4
5
6
7
8
9
10
11
12
20
30

L.wt.	Ounc.	D.wt.	Grai.	Mite.	Parts.
1	0	3	9	16	8
2	0	6	19	12	16
3	0	10	5	9	2
4	0	13	15	5	10
5	0	17	1	1	18
6	1	0	10	18	4
7	1	3	20	14	12
8	1	7	6	10	20
9	1	10	16	7	6
10	1	14	2	3	14
11	1	17	12	0	0
20	3	8	4	7	6
30	5	2	6	10	20

D.wt.	Grai.	Mite.	Parts.
0	6	16	8
0	13	12	16
0	20	9	2
1	3	5	10
1	10	1	18
1	16	18	4
1	23	14	12
2	6	10	20
2	13	7	6
2	20	3	14
3	3	0	0

L.wt.	Grai.
1	6
2	12
3	18
5	
6	6
7	12
8	18
10	
11	6
12	12

Grai.	Mite.	Part.
0	8	11
0	17	1
1	5	12
1	14	2
2	2	13
2	11	3
2	19	14
3	8	4
3	16	15
4	5	5

d.wt.	Grai.
13	18
15	
16	6
17	12
18	18
xvj	gr.
viij	gr.
iiij	gr.
ij	gr.
j	gr.

Grai.	Mite.	Part.
4	13	16
5	2	6
5	10	7
5	19	7
6	7	18
	m.	pt.
	4	12
	2	6
	1	3
	c	12
	c	6

D. wt.	Grain.	Mite.	Parts.
0	8	3	14
0	16	7	0
1	0	10	20
1	8	14	12
1	16	18	4
2	1	1	18
2	9	5	10
2	17	9	2
3	2	12	16
3	9	16	8
3	18	0	0

Grain.	Mite.	Parts.
5	12	11
6	2	16
6	12	21
7	3	4
7	13	9
—	mi	pt.
—	5	10
—	2	16
—	1	8
—	0	15

D. wt.	Grain.
13	18
15	
16	6
17	12
18	18
—	—
xvj	gr.
viij	gr.
iiij	gr.
ij	gr.
j	gr

L. wt.	Ounc.	D. wt.	Grai.	Mite.	Parts.
1	0	4	2	3	14
2	0	8	4	7	6
3	0	12	6	10	20
4	0	16	8	14	12
5	1	0	10	18	4
6	1	4	13	1	18
7	1	8	15	5	10
8	1	12	17	9	2
9	1	16	19	12	16
10	2	0	21	16	8
11	2	5	0	0	0
20	4	1	19	12	16
30	6	2	17	0	2

D. wt.	Grai.	Grain.	Mite.	Parts.
1	6	0	10	5
2	12	1	0	10
3	18	1	10	15
5	6	2	0	20
6	12	2	11	0
7	18	3	1	25
8	6	3	11	13
10	12	4	1	18
11	18	4	12	1
12	6	5	2	6

Parts.	Mites.	Grai.	D.wt.
20	10	9	0
18	1	19	0
16	12	4	1
14	3	14	1
12	14	23	1
10	5	9	2
8	16	18	2
6	17	4	3
4	18	13	3
2	9	23	3
0	10	9	4

Part.	Mite.	Grai.
5	11	6
4	3	7
2	15	7
1	7	8
21	18	8
pt.	mi	
8	6	
4	3	
13	1	
17	0	
8	0	

Parts.	Mites.	Grai.	D.wt.	Ounc.
20	1	8	4	0
18	12	13	9	0
16	3	7	14	0
14	14	2	19	0
12	5	20	3	1
10	16	15	8	1
8	7	9	13	1
6	18	4	18	1
4	9	22	2	2
2	0	17	7	2
0	18	12	12	2
46	7	10	15	4
		4	3	7

L.wt.	Grai.	Part.	Mite.	Gr.
1	18	20	11	0
2	6	19	3	1
3	12	17	15	1
4	18	16	7	2
5	6	14	19	2
6	12	13	11	3
7	18	11	3	4
8		10	15	4
9		8	7	5
10		7	19	5
11				
12				
20				
30				

L.wt.	Grai.	gr.
13	18	
15		
16	6	
17	12	
18	18	
		gr.
xvj		gr.
viii		gr.
iiij		gr.
ij		gr.
j		gr.

L.wt.	d.wt.	Grai.
1		6
2	2	12
3	3	18
4	5	
5	6	
6	8	
7	9	12
8	10	18
9	12	
10		6
11		
12		12

Parts.	Mites.	Grai.	D.wt.
4	18	10	0
8	16	21	0
12	14	8	1
16	12	19	1
20	10	6	2
2	9	17	2
6	7	4	3
10	5	15	3
14	3	2	4
18	1	13	4
0	0	0	5

Parts.	Mites.	Grai.	D.wt.	Ounc.
4	18	10	5	0
8	6	21	10	0
12	14	8	16	0
16	12	19	1	1
0	10	6	7	1
2	9	17	12	1
6	7	4	18	1
10	5	15	3	2
14	3	2	9	2
18	1	13	14	2
0	0	0	0	3

Parts.	Mites.	Grai.	D.wt.	Ounc.	L.wt.
4	18	10	5	0	1
8	6	21	10	0	2
12	14	8	16	0	3
16	12	19	1	1	4
0	10	6	7	1	5
2	9	17	12	1	6
6	7	4	18	1	7
10	5	15	3	2	8
14	3	2	9	2	9
18	1	13	14	2	10
0	0	0	0	3	11
					12

Part.	Mite.	Gr.	d.wt.	Grai.
14	13	0	1	6
6	7	1	2	12
20	0	2	3	18
12	14	2	5	
4	8	3	6	6
18	1	4	7	12
10	15	4	8	18
2	9	5	10	
16	2	6	11	6
8	16	6	12	12

Grai.	d.wt.
18	13
6	15
12	16
18	17
	18

gr.
xvj
viij
iiij
ij
j

Part.	Mite.	Grai.	D.wt.
0	10	7	1
14	3	8	2
6	17	9	3
20	10	10	4
12	4		5
pt.	mi		6
6	7		7
14	3		8
18	1		9
0	0		10
10			11
			12

D.wt.	Grai.	Mite	Parts.
0	12	5	10
1	0	10	20
1	12	16	8
2	1	1	18
2	13	7	6
3	1	12	16
3	13	18	4
4	2	3	14
4	14	9	2
5	2	14	12
5	15	0	0

Grai.	Mite.	Parts.
8	8	16
9	4	2
9	19	9
10	14	17
11	10	2
	mi	pt.
0	8	4
0	4	2
0	2	1
0	1	0
0	0	1

Ounc.	D.wt.	Grai.	Mite.	Parts.
0	6	3	5	10
0	12	6	10	20
0	18	9	16	8
1	4	13	1	18
1	10	16	7	6
1	16	19	12	16
2	2	22	18	4
2	9	2	3	14
2	15	5	9	2
3	1	8	14	12
3	7	12	0	0
6	4	17	9	2
9	2	21	3	14

D.wt.	Grai.
13	12
15	
16	6
17	12
18	18
xvj	gr.
viij	gr
iiij	gr.
ij	gr.
j	gr.

L.wt.	D.wt.	Grai.
1	1	6
2	2	12
3	3	18
4	5	
5	6	6
6	7	12
7	8	18
8	10	
9	11	6
10	12	12
11		
20		
30		

Grai.	Mite.	Parts.
0	15	7
1	10	15
2	6	0
3	1	8
3	13	15
4	12	1
5	7	8
6	2	16
6	18	1
7	3	9

Parts	Mite.	Grai.	D.wt.
16	12	13	0
10	5	3	1
4	18	16	1
20	10	6	2
14	3	20	2
8	16	9	3
2	9	23	3
18	1	13	4
12	14	2	5
6	7	16	5
0	0	6	6

Part.	Mite.	Grai.	d.wt.
1	7	5	1
12	4	10	2
13	1	11	3
14	18	11	4
15	15	12	5
—	—	—	6
2	9	—	7
12	4	—	8
6	2	—	9
3	1	—	10
0	12	—	11

Grai.	d.wt.
18	13
—	15
6	16
12	17
18	18
—	xvj gr.
—	viij gr.
—	iiij gr.
—	ij gr.
—	j gr.

Parts.	Mite.	Grai.	D.wt.	Ounc.	L.wt.
16	12	19	6	0	1
10	5	15	13	0	2
4	18	10	0	1	3
20	10	6	7	1	4
14	3	2	14	1	5
8	16	21	0	2	6
2	9	17	7	2	7
18	1	13	14	2	8
12	14	8	1	3	9
6	7	4	8	3	10
0	0	0	15	3	11
		8	16	6	20
		13	4	10	30

Part.	Mite.	Grai.	d.wt.
1	17	0	1
2	14	1	2
3	11	2	3
4	8	3	4
5	5	4	5
6	2	5	6
7	19	5	7
8	16	6	8
9	13	7	9
10	10	8	10

Grai.	d.wt.
6	1
12	2
18	3
6	5
12	6
18	7
6	8
12	10
	11
	21

D.wt.	Grai.
0	15
-	6
1	21
2	12
3	3
3	18
4	9
5	0
5	15
6	6
6	21

Grai.	Mite.	Part.
10	6	5
11	5	16
12	3	11
13	2	5
14	1	
	10	
	5	
	2	11
	1	5
	0	13

d.wt.	Grai.
13	18
15	
16	6
17	12
18	18
xvj	gr.
viij	gr.
iiij	gr.
ij	gr.
j	gr.

Ounc.	D.wt.	Grai.
0	7	12
0	15	0
1	2	12
1	10	0
1	17	12
2	5	0
2	12	12
3	0	0
3	7	12
3	15	0
4	2	12
7	10	
11	5	

Grai.	Mite.	Parts
0	18	16
1	17	11
2	16	5
3	15	0
4	13	16
5	12	11
6	11	5
7	10	0
8	8	16
9	7	11

L.wt.	Gr.
1	6
2	12
3	18
5	
6	6
7	12
8	18
10	
11	6
12	12

L.wt.
1
2
3
4
5
6
7
8
9
10
11
20
30

D. wt.	Gral.	Mite.	Parts.
0	16	7	6
1	8	14	12
2	1	1	18
2	17	9	2
3	9	16	8
4	2	3	14
4	18	10	20
5	10	18	4
6	3	5	10
6	19	12	16
7	12	0	0

D. wt.	Gral.
13	18
15	
16	6
17	12
18	18
	xvj gr.
	viij gr.
	iiij gr.
	ij gr.
	j gr.

Gral.	Mite.	Parts.
11	5	0
12	5	10
13	5	20
14	6	8
15	6	18
	10	0
	5	10
	2	16
	1	8
	0	15

L. wt.	D. wt.	Grai.	Parts.
1	1	6	10
2	2	12	20
3	3	18	8
5	5		18
6	6	6	6
7	7	12	16
8	8	18	4
10	10		14
11	11	6	2
12	12	12	12

Ounc.	D wt.	Grai.	Mite.	Parts.
0	8	4	7	6
0	16	8	14	12
1	4	13	1	18
1	12	17	9	2
2	0	21	16	8
2	9	2	3	14
2	17	6	10	20
3	5	10	18	4
3	13	15	5	10
4	1	19	12	16	0
4	10	0	0	0
	3	15	5	10
12	5	10	18	4

D.wt.	Grai.	Mite.	Parts.
0	17	14	12
1	11	9	2
2	5	3	14
2	22	18	4
3	16	12	16
4	10	7	6
5	4	1	18
5	21	16	8
6	15	10	20
7	9	5	10
8	3	0	0

Ounc.	D.wt.	Grai.	Mite.	Parts.	L.wt.
0	8	20	14	12	1
0	17	17	19	2	2
1	6	14	3	14	3
1	15	10	18	4	4
2	4	7	12	16	5
2	13	4	7	6	6
3	2	1	1	18	7
3	10	21	16	8	8
3	19	18	10	20	9
4	8	15	5	10	10
4	17	12	0	0	11
8	17	6	10	20	20
13	5	21	16	8	30

d.wt.	Grai.
13	18
15	
16	6
17	12
18	18
xvj	gr.
viij	gr.
iiij	gr.
ij	gr.
j	gr.

Parr.	Mite.	Grai.
16	3	12
20	5	13
1	8	14
5	10	15
8	12	16
18	11	
20	5	
21	2	
10	1	
16	0	

Grai.	Mite.	Parr.	d.wt.
1	2	3	1
2	4	7	2
3	6	10	3
4	8	14	5
5	10	17	6
6	12	21	7
7	15	2	8
8	17	6	10
9	19	9	11
11	1	11	12

Parts.	Mites.	Grain.	D.wt.
8	1	19	0
14	3	14	1
10	5	9	2
6	7	4	3
2	9	23	3
20	10	18	4
16	12	13	5
12	14	8	6
8	16	3	7
4	18	22	7
0		18	8

Parts.	Mites.	Grain.	D.wt.
18	1	32	9
14	3	27	9
10	5	23	10
6	7	18	11
2	9	13	12
20	10	8	13
16	12	4	14
12	14	0	14
8	16	25	15
4	18	20	16
0		16	17

Parts.	Mites.	Grain.	D.wt.	Ounc.
8	1	32	9	0
14	3	27	9	1
10	5	23	10	1
6	7	18	11	2
2	9	13	12	2
20	10	8	13	3
16	12	4	14	3
12	14	0	14	4
8	16	25	15	4
4	18	20	16	5
0		16	17	5

Parts.	Mites.	Grain.	D.wt.	Ounc.	L.wt.
8	1	32	9	0	1
14	3	27	9	1	2
10	5	23	10	1	3
6	7	18	11	2	4
2	9	13	12	2	5
20	10	8	13	3	6
16	12	4	14	3	7
12	14	0	14	4	8
8	16	25	15	4	9
4	18	20	16	5	10
0		16	17	5	11
				6	12

Parts.	Mites.	Grain.	D.wt.	Ounc.	L.wt.
8	1	32	9	0	1
14	3	27	9	1	2
10	5	23	10	1	3
6	7	18	11	2	4
2	9	13	12	2	5
20	10	8	13	3	6
16	12	4	14	3	7
12	14	0	14	4	8
8	16	25	15	4	9
4	18	20	16	5	10
0		16	17	5	11
				6	12

Parts.	Mites.	Grain.	D.wt.	Ounc.	L.wt.
8	1	32	9	0	1
14	3	27	9	1	2
10	5	23	10	1	3
6	7	18	11	2	4
2	9	13	12	2	5
20	10	8	13	3	6
16	12	4	14	3	7
12	14	0	14	4	8
8	16	25	15	4	9
4	18	20	16	5	10
0		16	17	5	11
				6	12

Parts.	Mites.	Grain.	D.wt.	Ounc.	L.wt.
8	1	32	9	0	1
14	3	27	9	1	2
10	5	23	10	1	3
6	7	18	11	2	4
2	9	13	12	2	5
20	10	8	13	3	6
16	12	4	14	3	7
12	14	0	14	4	8
8	16	25	15	4	9
4	18	20	16	5	10
0		16	17	5	11
				6	12

Parts.	Mites.	Grain.	D.wt.	Ounc.	L.wt.
8	1	32	9	0	1
14	3	27	9	1	2
10	5	23	10	1	3
6	7	18	11	2	4
2	9	13	12	2	5
20	10	8	13	3	6
16	12	4	14	3	7
12	14	0	14	4	8
8	16	25	15	4	9
4	18	20	16	5	10
0		16	17	5	11
				6	12

Parts.	Mites.	Grain.	D.wt.	Ounc.	L.wt.
8	1	32	9	0	1
14	3	27	9	1	2
10	5	23	10	1	3
6	7	18	11	2	4
2	9	13	12	2	5
20	10	8	13	3	6
16	12	4	14	3	7
12	14	0	14	4	8
8	16	25	15	4	9
4	18	20	16	5	10
0		16	17	5	11
				6	12

Parts.	Mites.	Grain.	D.wt.	Ounc.	L.wt.
8	1	32	9	0	1
14	3	27	9	1	2
10	5	23	10	1	3
6	7	18	11	2	4
2	9	13	12	2	5
20	10	8	13	3	6
16	12	4	14	3	7
12	14	0	14	4	8
8	16	25	15	4	9
4	18	20	16	5	10
0		16	17	5	11
				6	12

Parts.	Mites.	Grain.	D.wt.	Ounc.	L.wt.
8	1	32	9	0	1
14	3	27	9	1	2
10	5	23	10	1	3
6	7	18	11	2	4
2	9	13	12	2	5
20	10	8	13	3	6
16	12	4	14	3	7
12	14	0	14	4	8
8	16	25	15	4	9
4	18	20	16	5	10
0		16	17	5	11
				6	12

Parts.	Mites.	Grain.	D. wt.
2	9	20	0
4	18	16	1
6	7	13	2
8	16	9	3
10	5	6	4
12	14	2	5
14	3	23	5
16	12	19	6
18	1	16	7
20	10	12	8
0	0	9	9

Parts.	Mites.	Grain.
5	1	14
8	6	15
8	12	16
21	17	17
11	3	19
14	13	xvj
18	6	viij
9	3	iij
15	1	ij
18	0	j

Parts.	Mites.	Grain.	D. wt.
2	4	5	0
4	9	10	1
6	18	16	2
8	7	21	3
10	16	2	4
12	5	8	5
14	14	13	6
16	3	19	7
18	12	1	8
20	1	6	9
0	10	12	10
18	0	0	11
16	9	13	12

Parts.	Mites.	Grain.	D. wt.
12	5	1	1
3	11	2	2
15	16	3	3
6	2	5	5
18	7	6	6
6	13	7	7
21	18	8	8
12	4	10	10
2	10	11	11
15	15	12	12

Parts.	Mites.	Grain.	D. wt.	L. wt.
4	9	5	0	1
6	18	10	1	2
8	7	16	2	3
10	16	21	3	4
12	5	3	5	5
14	14	8	6	6
16	3	14	7	7
18	12	19	8	8
20	1	1	9	9
0	10	6	10	10
0	0	12	11	11
18	9	12	12	12
16	19	17	13	13
14	8	23	15	14
12	18	28	16	15
10	7	4	18	16
8	16	9	19	17
6	5	15	20	18
4	14	20	21	19
3	3	26	23	20
1	12	31	24	21
0	1	6	25	22
18	10	12	26	23
17	0	17	27	24
15	9	23	28	25
13	18	28	29	26
12	7	4	31	27
10	16	9	32	28
8	5	15	33	29
6	14	20	34	30

One Carract.

Parts.	8	16	2	10	18	4	12	20	6	14	0	
Mites.	16	12	9	5	1	18	14	10	7	3	0	
Grain.	21	19	17	15	13	10	8	6	4	2	0	
D.wt.	0	1	2	3	4	5	6	7	8	9	10	

Parts.	8	16	2	10	18	4	12	20	6	14	0	
Mites.	16	12	9	5	1	18	14	10	7	3	0	
Grain.	21	19	17	15	13	10	8	6	4	2	0	
D.wt.	0	1	2	3	4	5	6	7	8	9	10	
Ounc.	0	1	2	3	4	5	6	7	8	9	10	11

Parts.	8	16	2	10	18	4	12	20	6	14	0	
Mites.	16	12	9	5	1	18	14	10	7	3	0	
Grain.	21	19	17	15	13	10	8	6	4	2	0	
D.wt.	0	1	2	3	4	5	6	7	8	9	10	
Ounc.	0	1	2	3	4	5	6	7	8	9	10	11
L.wt.	1	2	3	4	5	6	7	8	9	10	11	12

At the Ounce.

Parts.	8	16	2	10	18	4	12	20	6	14	0	
Mites.	16	12	9	5	1	18	14	10	7	3	0	
Grain.	21	19	17	15	13	10	8	6	4	2	0	
D.wt.	0	1	2	3	4	5	6	7	8	9	10	

Grain.	18	6										
D.wt.	13	15	16	17	18							
						xvj	viij	iiij	ij			
	gr.	gr.	gr.	gr.	gr.							

Parts.	6	12	18	2	8	14	20	4	10	16	
Mites.	7	14	1	9	16	3	10	18	5	12	
Grain.	1	2	4	5	6	8	9	10	12	13	

Parts.	6	12	18	2	8	14	20	4	10	16	
Mite.		7	14	1	9		14	7	5	12	
Grai.	15	16	17	19	20					1	0

Grain.	6	12	18	6	12	18	6	12
D.wt.	1	2	3	5	6	7	8	10	11	12

One Carract 1 *quart. of a* Grain. *At the* Ounce

D. wt.	Grain.	Mites.	Parts.
0	23	3	14
1	22	7	6
2	21	10	20
3	20	14	12
4	19	18	4
5	19	1	18
6	18	5	10
7	17	9	2
8	16	12	16
9	15	16	8
10	15	0	

Grain.	Mites.	Parts.
15	18	16
17	7	16
18	16	15
20	5	15
21	14	14
	15	10
	7	16
	3	19
	1	20
	0	21

Ounc.	D. wt	Grain.	Mites.	Parts.
0	11	14	3	14
1	3	4	7	6
1	14	18	10	20
2	6	8	14	12
2	17	22	18	4
3	9	13	1	18
4	1	3	5	10
4	12	17	9	2
5	4	7	12	16
5	15	21	16	8
6	7	12	0	0
11	11	19	12	16
17	7	17	9	2

L. wt.	D. wt.	Grain.
1	1	6
2	2	12
3	3	18
4	5	
5	6	6
6	7	12
7	8	18
8	10	
9	11	6
10	12	12
11		
20		
30		

D. wt.	Grain.
13	18
15	
16	6
17	12
18	18
xvj	gr.
viij	gr.
iiij	gr.
ij	gr.
j	gr.

Grain.	Mites.	Parts.
1	8	21
2	17	21
4	6	20
5	15	20
7	4	19
8	13	19
10	2	18
11	11	18
13	0	17
14	9	17

Parts.	20	18	16	14	12	10	8	6	4	2	0
Mite.	10	1	12	3	14	5	16	7	18	9	0
Grain.	0	1	1	2	2	3	3	4	4	5	6
D. wt.	1	2	3	4	5	6	7	8	9	10	11

Parts.	11	4	19	12	5	8	4	2	1	00
Mite.	17	8	18	9	0	16	8	4	2	1
Grain.	16	18	19	21	23					

Grain.	18	6	12	18						
D. wt.	13	15	16	17	18	xvj	viij	iiij	ij	j

Parts.	0	18	16	14	12	10	8	6	4	2	0
Mite.	0	1	12	3	14	5	16	7	18	9	0
Grai.	6	13	19	2	8	15	21	4	10	17	0
D. wt.	12	4	16	9	1	13	5	18	10	2	
Ounc.	0	1	1	2	3	3	4	4	5	6	6

L. wt.	-	2	3	4	5	6	7	8	9	10	11	20	30

Parts.	15	8	1	16	9	2	17	10	3	18	
Mite.	10	1	12	2	13	4	14	5	16	6	18
Grain.	1	3	4	6	7	9	10	12	13	15	

Grai.	6	12	18	6	12	18					
D. wt.	1	2	3	5	6	7	8	10	11	12	

Parts.	48
Mite.	18 16 14 12 10 9 7 5 3 1 0
Grai.	1 3 5 7 9 11 13 15 17 19 21
D.wt.	1 2 3 4 5 6 7 8 9 10 11

Parts.	48	24	12	10	20	2	6	10	14	18	0	14	10
Mite.	18	16	14	12	10	9	7	5	3	1	0	3	5
Grai.	22	21	20	19	18	17	16	15	14	13	12	2	
D.wt.	12	5	18	11	4	17	10	3	16	9	2	19	8
Ounc.	0	1	1	2	3	3	4	5	5	6	7	12	19

Lwt.	1	2	3	4	5	6	7	8	9	10	11	20	30

Parts.	5	14	0	9	17	6	14	7	3	1
Mite.	16	8	1	13	5	17	8	4	2	1
Grai.	17	19	21	22	0					
D.wt.	0	0	0	0	1					

Parts.	8	17	3	12	20	7	15	2	10	19
Mite.	12	4	17	9	1	14	6	19	11	3
Grai.	1	3	4	6	8	9	11	12	14	16

Grai.	18	6	12	18						
D.wt.	13	15	16	17	18					

xvj	gr.
viij	gr.
iiij	gr.
ij	gr.
j	gr.

D.wt.	Grai.
1	6
2	12
3	18
5	
6	6
7	12
8	18
10	
11	6
12	12

Parts.	10	20	8	
Mites.	5	10	16	1
Grai.	3	6	9	13
D.wt.	1	2	3	4

18	6	16	4	14	2	12	0			
7	16	12	18	3	9	14	0			
13	16	19	22	2	5	8	12			
5	6	7	8	9	10	11	12			

Parts.	10	20	8	18	6	16	4	14	2	12	0			
Mites.	5	10	16	1	7	12	18	3	9	14	0			
Grai.	3	6	9	13	16	19	22	2	5	8	12			
D.wt.	1	2	3	4	5	6	7	8	9	10	11	12		

Parts.	10	20	8	18	6	16	4	14	2	12	0	2
Mites.	5	10	16	1	7	12	18	3	9	14	0	
Grai.	15	6	21	13	4	19	10	2	17	8	0	17
D.wt.	13	7	0	14	8	1	15	9	2	16	10	12
Ounc.	0	1	2	2	3	4	4	5	6	6	7	13
												20

Parts.	10	20	8	18	6	16	4	14	2	12	0	2	14
Mites.	5	10	16	1	7	12	18	3	9	14	0	9	3
Grai.	15	6	21	13	4	19	10	2	17	8	0	17	2
D.wt.	13	7	0	14	8	1	15	9	2	16	10	12	9
Ounc.	0	1	2	2	3	4	4	5	6	6	7	13	20
L.wt.	1	2	3	4	5	6	7	8	9	10	11	20	30

Grai.	18	6	12	18										
d.wt.	13	15	16	17	18									
						xvj	viij	iiij	ij	j				
gr.	gr.	gr.	gr.	gr.	gr.									

Part.	0	2	4	6	8	pt.	4	2	12	6	3
Mite.	15	9	3	17	11	mi	18	9	4	2	1
Grai.	18	20	22	23	1		0				
D.wt.	0	0	0	0	1						

Parts	2	4	6	8	10	12	14	16	18	20
Mit.	14	00	2	16	4	18	6	20	8	0
Grai	1	3	5	6	8	10	11	13	15	17

Gr.	6	12	18	6	12	18	6	12
d.wt.	1	2	3	5	6	7	8	10	11	12

One Carract *one* Grain *and a quart. At the* Ounce.

D wt.	Grain.	Mite.	Parts.
1	4	12	16
2	9	5	10
3	13	18	4
4	18	10	20
5	23	3	14
7	3	16	8
8	8	9	2
9	13	1	18
10	17	14	12
11	22	7	6
13	3	0	0

D.wt.	Grain.	Mite.	Parts.
0	19	13	16
0	21	9	12
0	23	5	7
1	1	1	3
1	2	16	20
	0	19	2
		9	12
		4	17
		2	8
		1	4

Ounc.	D.wt.	Grai.	Mite.	Parts.
0	14	7	12	16
1	8	15	5	10
2	2	22	18	4
2	17	6	10	20
3	11	14	3	14
4	5	21	16	8
5	0	5	9	2
5	15	13	1	18
6	8	20	14	12
7	3	4	7	6
7	17	12	0	0
14	6	8	14	12
21	9	13	1	18

D.wt.	Grai.	Grain.	Mite.	Parts.
		1	15	17
		3	11	13
		5	7	8
		7	3	4
		8	18	21
		10	14	17
		12	10	12
		14	6	8
		16	2	3
		17	17	21

D.wt.	Grain.	
13	18	
15		
16	6	
17	12	
18	18	
		xvj gr.
		viij gr.
		iiij gr.
		ij gr.
		j gr.

L. wt.	D.wt.	Grai.
1	1	6
2	2	12
3	3	18
4	5	
5	6	6
6	7	12
7	8	18
8	10	
9	11	6
10	12	12
11		
20		
30		

D.wt.	Grai.
1	6
2	12
3	18
5	0 6
6	12
7	18
8	0 6
10	12
11	18
12	
13	

Parts.	Mite.	Grai.	D.wt.
11	12	20	0
	10	22	0
11	7	0	1
0	5	2	1
11	2	4	1
0	0	1	
0	10	0	
0	5	0	
11	2	0	

Grai.	D.wt.
12	13
6	15
12	16
18	17
	18

gr.
xvj
viij
iiij
ij

Parts.	Mite.	Grai.	D.wt.
11	0	1	1
0	17	3	2
11	15	5	3
0	12	7	5
11	10	9	6
0	7	11	7
11	5	13	8
0	2	15	10
11	0	16	11
		18	12

D.wt.	Onnc.
15	0
10	1
5	2
0	3
15	3
10	4
5	5
0	6
15	6
10	7
5	8
0	15
10	22

L.wt.
1
2
3
4
5
6
7
8
9
10
11
20
30

D.wt.	Grai.
1	6
2	12
3	18
5	6
6	12
7	18
8	
10	6
11	12
12	

Parts.	Mite.	Grai.	D. wt.
6	7	7	1
12	14	14	2
18	22	1	3
2	5	9	5
8	12	16	6
14	20	3	7
20	3	10	9
4	10	18	10
10	18	5	11
16	1	12	13
0	9	0	14

Parts.	Mite.	Grai.	D. wt.
5	11	21	0
10	10	23	0
14	9	1	1
19	8	3	1
1	8	5	1
		1	0
20	0		
10	10		
5	5		
13	2	0	

Gral.	D wt.
18	13
	15
6	16
12	17
18	18
gr.	xvj
gr.	viij
gr.	iiij
gr.	ij
gr.	j

Parts.	Mite.	Grai.	D wt.
4	19	1	1
9	18	3	
13	17	5	
18	16	7	
0	16	9	
5	15	11	
9	14	13	
14	13	15	
18	12	17	
1	12	19	

Parts.	Mite.	Grai.	D wt.	Ounc.
6	7	16	15	0
12	14	8	11	1
18	1	1	7	2
2	9	17	2	3
8	16	9	18	3
14	3	2	14	4
20	10	18	9	5
4	18	10	5	6
10	5	3	1	7
16	12	19	16	7
0	0	12	12	8
5	5	15	13	10
4	18	18	10	23

Grai.	D. wt.	L. wt.
6	1	1
12	2	2
18	3	3
6	5	4
12	6	5
18	7	6
6	9	7
12	10	8
	11	9
	12	10
		11
		20
		30

D.wt.	Grai.	Mite.	Parts.
1	8	14	12
2	17	9	2
4	2	3	14
5	10	18	4
6	19	12	16
8	4	7	6
9	13	1	18
10	21	16	8
12	6	10	20
13	15	5	10
15		0	

Grai.	d.wt.
18	13
6	15
12	16
18	17
	18
gr.	xvj
gr.	viij
gr.	iiij
gr.	ij
gr.	j

Part.	Mite.	Grai.	l.wt.
0	10	22	0
20	10	0	1
18	11	2	1
16	12	4	1
14	13	6	1
18	1	1	
20	10	0	
10	5	0	
16	2	0	
8	1	0	

Parts.	Mite.	Grai.	D.wt.	Ounc.
12	14	8	1	0
2	9	17	2	1
14	3	2	4	2
4	18	10	5	3
16	12	19	1	4
6	7	4	8	4
18	1	13	14	5
8	16	21	10	6
20	10	6	7	7
10	5	15	3	8
0	0	0	0	9
20	10	6	7	16
8	16	21	10	24

Part.	Mite.	Grai.	d.wt.
0	0	2	1
18	1	4	2
16	2	6	3
14	3	8	5
12	4	10	6
10	5	12	7
8	6	14	8
6	7	16	10
4	8	18	11
2	9	20	12

Grai.	L.wt.
6	1
12	2
18	3
	4
6	5
12	6
18	7
	8
6	9
12	10
	11
	20
	30

Parts.	Mite.	Grai.	D. wt.
18	1	10	1
14	3	20	2
10	5	6	4
6	7	16	5
2	9	2	7
20	10	12	8
16	12	22	9
12	14	8	11
8	16	18	12
4	18	4	14
0	0	15	15

Parts.	Mite.	Grai.	D. wt.
16	8	23	0
8	11	1	1
21	13	3	1
13	16	5	1
4	19	7	1
16	2	1	
8	11	0	
15	5	0	
18	2	0	
9	1	0	

Grai.	D wt.
18	13
	15
6	16
12	17
18	18
gr.	xvj
gr.	viij
gr.	iiij
gr.	ij
gr.	j

Parts.	Mite.	Grai.	D wt.
18	1	1	17
14	3	2	14
10	5	3	11
6	7	4	8
2	9	5	5
20	10	6	2
16	12	7	19
12	14	8	16
8	16	9	13
4	18	10	10
0	0	12	7
8	0	21	0
12	8	14	11

Grai.	Mite.	Parts.
2	2	13
4	5	5
6	7	18
8	10	10
10	13	1
12	15	15
14	18	6
17	0	20
19	3	11
21	0	3

Grai.	D. wt.
6	1
12	2
18	3
	5
6	6
12	7
18	8
	10
6	11
12	12

L. wt.
1
2
3
4
5
6
7
8
9
10
11
20
30

Parts.	Mite.	Grai.	D.wt.
2	9	11	1
4	18	22	2
6	7	10	4
8	16	21	5
10	5	9	7
12	14	20	8
14	3	8	10
16	12	19	11
18	1	7	13
20	10	18	14
0	0	6	16

Parts.	Mite.	Grai.	D.wt.	Onc.
2	9	17	17	0
4	18	10	15	1
6	7	4	13	2
8	16	21	10	3
10	5	15	8	4
12	14	8	6	5
14	2	2	4	6
16	12	19	1	7
18	1	13	19	7
20	10	6	17	8
0	0	0	15	9
8	1	13	14	17
16	12	19	11	26

Part.	Mite.	Grai.	D.wt.	L.wt.
7	4	2	1	1
14	8	4	2	2
21	12	6	3	3
6	17	8	5	4
13	1	11	6	5
20	5	13	7	6
5	10	15	8	7
12	14	17	10	8
19	18	19	11	9
4	3	22	12	10
11	7	24	13	11
18	12	26	15	12
1	16	28	16	13
8	21	30	17	14
15	1	32	18	15
22	6	34	20	16
3	11	36	21	17
10	15	38	22	18
17	20	40	23	19
0	0	42	24	20
4	5	44	25	21
11	10	46	26	22
18	14	48	27	23
1	19	50	28	24
8	0	52	30	25
15	5	54	31	26
22	9	56	32	27
5	14	58	33	28
12	19	60	34	29
19	0	62	35	30
2	4	64	36	31
9	9	66	37	32
16	14	68	38	33
23	19	70	39	34
6	0	72	40	35
13	4	74	41	36
20	9	76	42	37
3	14	78	43	38
10	19	80	44	39
17	0	82	45	40
0	4	84	46	41
7	9	86	47	42
14	14	88	48	43
21	19	90	49	44
4	0	92	50	45
11	4	94	51	46
18	9	96	52	47
1	14	98	53	48
8	19	100	54	49
15	0	102	55	50
22	4	104	56	51
5	9	106	57	52
12	14	108	58	53
19	19	110	59	54
2	0	112	60	55
9	4	114	61	56
16	9	116	62	57
23	14	118	63	58
6	19	120	64	59
13	0	122	65	60
20	4	124	66	61
3	9	126	67	62
10	14	128	68	63
17	19	130	69	64
0	0	132	70	65
7	4	134	71	66
14	9	136	72	67
21	14	138	73	68
4	19	140	74	69
11	0	142	75	70
18	4	144	76	71
1	9	146	77	72
8	14	148	78	73
15	19	150	79	74
22	0	152	80	75
5	4	154	81	76
12	9	156	82	77
19	14	158	83	78
2	19	160	84	79
9	0	162	85	80
16	4	164	86	81
23	9	166	87	82
6	14	168	88	83
13	19	170	89	84
20	0	172	90	85
3	4	174	91	86
10	9	176	92	87
17	14	178	93	88
0	19	180	94	89
7	0	182	95	90
14	4	184	96	91
21	9	186	97	92
4	14	188	98	93
11	19	190	99	94
18	0	192	100	95
1	4	194	101	96
8	9	196	102	97
15	14	198	103	98
22	19	200	104	99
5	0	202	105	100
12	4	204	106	101
19	9	206	107	102
2	14	208	108	103
9	19	210	109	104
16	0	212	110	105
23	4	214	111	106
6	9	216	112	107
13	14	218	113	108
20	19	220	114	109
3	0	222	115	110
10	4	224	116	111
17	9	226	117	112
0	14	228	118	113
7	19	230	119	114
14	0	232	120	115
21	4	234	121	116
4	9	236	122	117
11	14	238	123	118
18	19	240	124	119
1	0	242	125	120
8	4	244	126	121
15	9	246	127	122
22	14	248	128	123
5	19	250	129	124
12	0	252	130	125
19	4	254	131	126
2	9	256	132	127
9	14	258	133	128
16	19	260	134	129
23	0	262	135	130
6	4	264	136	131
13	9	266	137	132
20	14	268	138	133
3	19	270	139	134
10	0	272	140	135
17	4	274	141	136
0	9	276	142	137
7	14	278	143	138
14	19	280	144	139
21	0	282	145	140
4	4	284	146	141
11	9	286	147	142
18	14	288	148	143
1	19	290	149	144
8	0	292	150	145
15	4	294	151	146
22	9	296	152	147
5	14	298	153	148
12	19	300	154	149
19	0	302	155	150
2	4	304	156	151
9	9	306	157	152
16	14	308	158	153
23	19	310	159	154
6	0	312	160	155
13	4	314	161	156
20	9	316	162	157
3	14	318	163	158
10	19	320	164	159
17	0	322	165	160
0	4	324	166	161
7	9	326	167	162
14	14	328	168	163
21	19	330	169	164
4	0	332	170	165
11	4	334	171	166
18	9	336	172	167
1	14	338	173	168
8	19	340	174	169
15	0	342	175	170
22	4	344	176	171
5	9	346	177	172
12	14	348	178	173
19	19	350	179	174
2	0	352	180	175
9	4	354	181	176
16	9	356	182	177
23	14	358	183	178
6	19	360	184	179
13	0	362	185	180
20	4	364	186	181
3	9	366	187	182
10	14	368	188	183
17	19	370	189	184
0	0	372	190	185
7	4	374	191	186
14	9	376	192	187
21	14	378	193	188
4	19	380	194	189
11	0	382	195	190
18	4	384	196	191
1	9	386	197	192
8	14	388	198	193
15	19	390	199	194
22	0	392	200	195
5	4	394	201	196
12	9	396	202	197
19	14	398	203	198
2	19	400	204	199
9	0	402	205	200
16	4	404	206	201
23	9	406	207	202
6	14	408	208	203
13	19	410	209	204
20	0	412	210	205
3	4	414	211	206
10	9	416	212	207
17	14	418	213	208
0	19	420	214	209
7	0	422	215	210
14	4	424	216	211
21	9	426	217	212
4	14	428	218	213
11	19	430	219	214
18	0	432	220	215
1	4	434	221	216
8	9	436	222	217
15	14	438	223	218
22	19	440	224	219
5	0	442	225	220
12	4	444	226	221
19	9	446	227	222
2	14	448	228	223
9	19	450	229	224
16	0	452	230	225
23	4	454	231	226
6	9	456	232	227
13	14	458	233	228
20	19	460	234	229
3	0	462	235	230
10	4	464	236	231
17	9	466	237	232
0	14	468	238	233
7	19	470	239	234
14	0	472	240	235
21	4	474	241	236
4	9	476	242	237
11	14	478	243	238
18	19	480	244	239
1	0	482	245	240
8	4	484	246	241
15	9	486	247	242
22	14	488	248	243
5	19	490	249	244
12	0	492	250	245
19	4	494	251	246
2	9	496	252	247
9	14	498	253	248
16	19	500	254	249
23	0	502	255	250
6	4	504	256	251
13	9	506	257	252
20	14	508	258	253
3	19	510	259	254
10	0	512	260	255
17	4	514	261	256
0	9	516	262	257
7	14	518	263	258
14	19	520	264	259
21	0	522	265	260
4	4	524	266	261
11	9	526	267	262
18	14	528	268	263
1	19	530	269	264
8	0	532	270	265
15	4	534	271	266
22	9	536	272	267
5	14	538	273	268
12	19	540	274	269
19	0	542	275	270
2	4	544	276	271
9	9	546	277	272
16	14	548	278	273
23	19	550	279	274
6	0	552	280	275
13	4	554	281	276
20	9	556	282	277
3	14	558	283	278
10	19	560	284	279
17	0	562	285	280
0	4	564	286	281
7	9	566	287	282
14	14	568	288	283
21	19	570	289	284
4	0	572	290	285
11	4	574	291	286
18	9	576	292	287
1	14	578	293	288
8	19	580	294	289
15	0	582	295	290
22	4	584	296	291
5	9	586	297	292
12	14	588	298	293
19	19	590	299	294
2	0	592	300	295
9	4	594	301	296
16	9	596	302	297
23	14	598	303	298
6	19	600	304	299
13	0	602	305	300
20	4	604	306	301
3	9	606	307	302
10	14	608	308	303
17	19	610	309	304
0	0	612	310	305
7	4	614	311	306
14	9	616	312	307
21	14	618	313	308
4	19	620	314	309
11	0	622	315	310
18	4	624	316	311
1	9	626	317	312
8	14	628	318	313
15	19	630	319	314
22	0	632	320	315
5	4	634	321	316
12	9	636	322	317
19	14	638	323	318
2	19	640	324	319
9	0	642	325	320
16	4	644	326	321
23	9	646	327	322
6	14	648	328	323
13	19	650	329	324
20	0	652	330	325
3	4	654	331	326
10	9	656	332	327
17	14	658	333	328
0	19	660	334	329
7	0	662	335	330
14	4	664	336	331
21	9	666	337	332
4	14	668	338	333
11	19	670	339	334
18	0	672	340	335
1	4	674	341	336
8	9	676	342	337
15	14	678	343	338
22	19	680	344	339
5	0	682	345	340
12	4	684	346	341
19	9	686	347	342
2	14	688	348	343
9	19	690	349	344
16	0	692	350	345
23	4	694	351	346
6	9	696	352	347
13	14	698	353	348
20	19	700	354	349
3	0	702	355	350
10	4	704	356	351
17	9	706	357	352
0	14	708	358	353
7	19	710	359	354
14	0	712	360	355
21	4	714	361	356
4	9	716	362	357
11	14	718	363	358
18	19	720	364	359
1	0	722	365	360
8	4	724	366	361
15	9	726	367	362
22	14	728	368	363
5	19	730	369	364
12	0	732	370	365
19	4	734	371	366
2	9	736	372	367
9	14	738	373	368
16	19	740	374	369
23	0	742	375	370
6	4	744	376	371
13	9	746	377	372
20	14	748	378	373
3	19	750	379	374
10	0	752	380	375
17	4	754	381	376
0	9	756	382	377
7	14	758	383	378
14	19	760	384	379
21	0	762	385	380
4	4	764	386	381
11	9	766	387	382
18	14	768	388	383
1	19	770	389	384
8	0	772	390	385
15	4	774	391	386
22	9	776	392	387
5	14	778	393	388
12	19	780	394	389
19	0	782	395	390
2	4	784	396	391
9	9	786	397	392
16	14	788	398	393
23	19	790	399	394
6	0	792	400	395
13	4	794	401	396
20	9	796	402	397
3	14	798	403	398
10	19	800	404	399
17	0	802	405	400
0	4	804	406	401
7	9	806	407	402
14	14	808	408	403
21	19	810	409	404
4	0	812	410	405
11	4	814	411	406
18	9	816	412	407
1	14	818	413	408
8	19	820	414	409
15	0	822	415	410
22	4	824	416	411
5	9	826	417	412
12	14	828	418	413
19	19	830	419	414
2	0	832	420	415
9	4	834	421	416
16	9	836	422	417
23	14	838	423	418
6	19	840	424	419
13	0	842	425	420
20	4	844	426	421
3	9	846	427	422
10	14	848	428	423
17	19	850	429	424
0	0	852	430	425
7	4	854	431	426
14	9	856	432	427
21	14	858	433	428
4	19	860	434	429
11	0	862	435	430
18	4	864	436	431
1	9	866	437	432
8	14	868	438	433
15	19	870	439	434
22	0	872	440	435
5	4	874	441	436
12	9	876	442	437
19	14	878	443	438
2	19	880	444	439
9	0	882	445	440
16	4	884	446	441
23	9	886	447	442
6	14	888	448	443
13	19	890	449	444
20	0	892	450	445
3	4	894	451	446
10	9	896	452	447
17	14	898	453	448
0	19	900	454	449
7	0	902	455	450
14	4	904	456	451
21	9	906	457	452
4	14	908	458	453
11	19	910	459	454
18	0	912	460	455
1	4	914	461	456
8	9	916	462	457
15	14	918	463	458
22	19	920	464	459
5	0	922	465	460
12	4	924	466	461
19	9	926	467	462
2	14	928	468	463
9	19	930	469	464
16	0	932	470	465
23	4	934	471	466
6	9	936	472	467
13	14	938	473	468
20	19	940	474	469
3	0	942	475	470
10	4	944	476	471
17	9	946	477	472
0	14	948	478	473
7	19	950	479	474
14	0	952	480	475
21	4	954	481	476
4	9	956	482	477
11	14	958	483	478
18	19	960	484	479
1	0	962	485	480
8	4	964	486	481
15	9	966	487	482
22	14	968	488	483
5	19	970	489	484
12	0	972	490	485
19	4	974	491	486
2	9	976	492	487
9	14	978	493	488
16	19	980	494	489
23	0	982	495	490
6	4	984	496	491
13	9	986	497	492
20	14	988	498	493
3	19	990	499	494
10	0	992	500	495
17	4	994	501	496
0	9	996	502	497
7	14	998	503	498
14	19	1000	504	499
21	0	1002	505	500
4	4	1004	506	501
11	9	1006	507	502
18	14	1008	508	503
1	19	1010	509	504
8	0	1012	510	505
15	4	1014	511	506
22	9	1016	512	507
5	14	1018	513	508
12	19	1020	514	509
19	0	1022	515	510
2	4	1024	516	511
9	9	1026	517	512
16	14	1028	518	513
23	19	1030	519	514
6	0	1032	520	515
13	4	1034	521	516
20	9	1036	522	517
3	14	1038	523	518
10	19	1040	524	519
17	0	1042	525	520
0	4	1044	526	521
7	9	1046	527	522
14	14	1048	528	523
21	19	1050	529	524
4	0	1052	530	525
11	4	1054	531	526
18	9	1056	532	527
1	14	1058	533	528
8	19	1060	534	529
15	0	1062	535	530
22	4	1064	536	531
5	9	1066	537	532
12	14	1068	538	533
19	19	1070	539	534
2	0	1072	540	535
9	4	1074	541	536
16	9	1076	542	537
23	14	1078	543	538
6	19	1080	544	539
13	0	1082	545	540
20	4	1084	546	541
3	9	1086	547	542
10	14	1088	548	543
17	19	1090	549	544
0	0	1092	550	545
7	4	1094	551	546
14	9	1096	552	547
21	14	1098	553	548
4	19	1100	554	549
11	0	1102	555	550
18	4	1104	556	551
1	9	1106	557	552
8	14	1108	558	553
15	19	1110	559	554
22	0	1112	560	555
5	4	1114	561	556
12	9	1116	562	557
19	14	1118	563	558
2	19	1120	564	559
9	0	1122	565	560
16	4	1124	566	561
23	9	1126	567	562
6	14	1128	568	563
13	19	1130	569	564
20	0	1132	570	565
3	4	1134	571	566
10	9	1136	572	567
17	14	1138	573	568
0	19	1140	574	569
7	0	1142	575	570
14	4	1144	576	571
21	9	1146	577	572
4	14	1148	578	573
11	19	1150	579	574
18	0	1152	580	575
1	4	1154	581	576
8	9	1156	582	577
15	14	1158	583	578
22	19	1160	584	579
5	0	1162	585	580
12	4	1164	586	581
19	9	1166	587	582
2	14	1168	588	583
9	19	1170	589	584
16	0	1172	590	585
23	4	1174	591	586
6	9	1176	592	587
13	14	1178	593	588
20	19	1180	594	589
3	0	1182	595	590
10	4	1184	596	591
17	9	1186	597	592
0	14	1188	598	593
7	19	1190	599	594
14	0	1192	600	595
21	4	1194	601	596
4	9	1196	602	597
11	14	1198	603	598
18	19	1200	604	599
1	0	1202	605	600
8	4	1204	606	601
15	9	1206	607	602
22	14	1208	608	603
5	19	1210	609	604
12	0	1212	610	605
19	4	1214	611	606
2	9	1216	612	607
9	14	1218	613	608
16	19	1220	614	609
23	0	1222	615	610
6	4	1224	616	611
13	9	1226	617	612
20	14	1228	618	613
3	19	1230	619	614
10	0	1232	620	615
17	4	1234	621	616
0	9	1236	622	617
7	14	1238	623	618
14	19	1240	624	619
21	0	1242	625	620
4	4	1244	626	621
11	9	1246	627	622
18	14	1248	628	623
1	19	1250	629	624
8	0	1252	630	625
15	4	1254	631	626
22	9	1256	632	627
5	14	1258	633	628
12	19	1260	634	629
19	0	1262	635	630
2	4	1264	636	631
9	9	1266	637	632
16	14	1268	638	633
23	19	1270	639	634
6	0	1272	640	635
13	4	1274	641	636
20	9	1276	642	637
3	14	1278	643	638
10	19	1280	644	639
17	0	1282	645	640
0	4	1284	646	641
7	9	1286	647	642
14	14	1288	648	643
21	19	1290	649	644
4	0	1292	650	645
11	4	1294	651	646
18	9	1296	652	647
1	14	1298	653	648
8	19	1300	654	649
15	0	1302	655	650
22	4	1304	656	651
5	9	1306	657	652
12	14	1308	658	653
19	19	1310	659	654
2	0	1312	660	655
9	4	1314	661	656
16	9	1316	662	657
23	14	1318	663	658
6	19	1320	664	659
13	0	1322	665	660
20	4	1324	666	661
3	9	1326	667	662
10	14	1328	668	663
17	19	1330	669	664
0	0	1332	670	665
7	4	1334	671	666
14	9	1336	672	667
21	14	1338	673	668
4	19	1340	674	669
11	0	1342	675	670
18	4	1344	676	671
1	9	1346	677	672
8	14	1348	678	673
15	19	1350	679	674
22	0	1352	680	675
5	4	1354	681	676
12	9	1356	682	677
19	14	1358	683	678
2	19	1360	684	679
9	0	1362	685	680
16	4	1364	686	681
23	9	1366	687	682
6	14	1368	688	683
13	19	1370	689	684
20	0	1372	690	685
3	4	1374	691	686
10	9	1376	692	687
17	14	1378	693	688
0	19	1380	694	689
7

D.wt.	Grai.	Mites.	Parts.
1	12	16	8
3	1	12	16
4	14	9	2
6	3	5	10
7	16	1	18
9	4	18	4
10	17	14	12
12	6	10	20
13	19	7	6
15	8	3	14
16	21	0	0

d.wt.	Grai.	Mite.	Part.
1	1	6	5
1	3	12	6
1	5	18	6
1	8	4	7
1	10	10	7
	1	4	12
	1	0	6
		0	3
			1

L.wt.	Grai.
1	6
2	12
3	18
5	
6	6
7	12
8	18
10	
11	6
12	12

Ounc.	D.wt.	Grai.	Mites.	Parts.
0	18	9	16	8
1	16	19	12	16
2	15	5	9	2
3	13	15	5	10
4	12	1	1	18
5	10	10	18	4
6	8	20	14	12
7	7	6	10	20
8	5	16	7	6
9	4	2	3	14
10	2	12	0	0
18	8	4	7	6
27	12	6	10	20

Gr.	Mite.	Part.
2	6	0
4	12	1
6	18	1
9	4	2
11	10	2
13	16	3
16	2	3
18	8	4
20	14	4
23	0	0

d.wt.	Grai.	
13	18	
15		
16	6	
17	12	
18	18	
		gr.
xvj		gr.
viii		gr.
iiij		gr.
ij		gr.
j		gr.

Parts.	Mites.	Grai.	D.wt.
14	3	14	1
6	7	4	3
20	10	18	4
12	14	8	6
4	18	22	7
18	1	13	9
10	5	3	11
2	9	17	12
16	12	7	14
8	16	21	15
0	0	12	17

Parts.	Mites.	Grai.	D.wt.	Ounc.
14	3	2	19	0
6	7	4	18	1
20	10	6	17	2
12	14	8	16	3
4	18	10	15	4
18	1	13	14	5
10	5	15	13	6
2	9	17	12	7
16	12	19	11	8
8	16	21	10	9
0	0	0	10	10
16	12	19	1	19
2	17	9	12	28

Parts.	Mites.	Grai.	D.wt.	L.wt.
14	3	2	19	1
6	7	4	18	2
20	10	6	17	3
12	14	8	16	4
4	18	10	15	5
18	1	13	14	6
10	5	15	13	7
2	9	17	12	8
16	12	19	11	9
8	16	21	10	10
0	0	0	10	11
16	12	19	1	20
2	17	9	12	30

Grai.	d.wt.
18	1 3
6	1 5
12	1 10
18	1 17
8	1 18
xv	gr.
viii	gr.
iiij	gr.
ij	gr.
j	gr.

Part.	Mite.	Gr.	d.wt.
16	7	2	1
10	15	4	1
4	3	7	1
20	10	9	1
14	18	11	1
8	6	14	1
2	14	16	1
18	1	19	1
12	9	21	1

Mite.	Grai.	d.wt.
5	2	1
12	4	1
0	7	1
8	9	1
16	12	1
1	5	gr.
9	8	gr.
0	0	gr.
8	3	gr.
16	6	gr.

Part.	Mite.	Grai.	d.wt.
0	5	2	1
16	12	4	1
10	0	7	1
4	8	9	1
20	16	12	1
16	5	14	gr.
8	12	0	gr.
0	0	0	gr.
8	6	3	gr.
4	0	6	gr.

D.wt.	Grain.	Mites.	Parts.
1	15	10	20
3	7	1	18
4	22	12	16
6	14	3	14
8	5	14	12
9	21	5	10
11	12	16	8
13	4	7	6
14	19	18	4
16	11	9	2
18	3		0

D.wt.	Grain.	Mites.	Parts.
1	3	3	16
1	5	13	4
1	8	2	13
1	10	12	1
1	13	1	10
	1	6	8
	0	13	4
	0	6	13
	0	3	6
	0	1	14

L. wt.	Ounc.	D.wt.	Grain.	Mites.	Parts.
1	0	19	18	10	20
2	1	19	13	1	18
3	2	19	7	12	16
4	3	19	2	3	14
5	4	18	20	14	12
6	5	18	15	5	10
7	6	18	9	16	8
8	7	18	4	7	6
9	8	17	22	18	4
10	9	17	17	9	2
11	10	17	12	0	0
20	19	15	10	18	4
30	29	13	4	7	6

D.wt.	Grain.	Mites.	Parts.
1	6	2	9
2	12	4	19
3	18	7	6
5		9	16
6	6	12	3
7	12	14	13
8	18	17	0
10		19	10
11	6	22	19
12	12	1 0	7

D.wt.	Grain.	
13	18	
15		
16	6	
17	12	
18	18	
		xvj gr.
		viij gr.
		iiij gr.
		ij gr.
		j gr.

Parts.	Mites.	Grain.	D.wt.
4	18	16	1
8	10	9	3
12	14	2	5
16	12	19	6
20	10	12	8
2	9	5	10
6	7	22	11
10	5	15	13
14	3	8	15
18	1	1	17
0	0	18	18

Parts.	Mites.	Grain.	D.wt.
4	2	11	1
8	13	14	1
12	4	17	1
16	15	20	1
20	7	1	1
6	1	7	
14	0	13	
8	0	6	
2	0	0	
15	0	1	

Gr n.	D.wt.
18	13
	15
6	16
12	17
18	18
gr	xvj
gr.	viij
gr	iij
gr.	
gr	

Part .	Mites.	Grain.	D.wt.	Ounc.
4	18	10	0	1
8	16	21	0	2
12	14	8	1	3
16	12	19	1	4
20	10	6	2	5
2	9	17	2	6
6	7	4	3	7
10	5	15	3	8
14	3	2	4	9
18	1	13	4	10
0	0	0	5	11
14	3	2	9	20
10	5	15	13	30

Parts.	Mites.	Grain.	D.wt.
8	11	2	
16	2	5	
4	13	7	
12	4	10	
20	15	12	
8	6	15	1
16	17	17	1
4	9	20	1
12	0	23	1
0	11	1	1

Grain.	D.wt.
6	1
12	2
18	3
	5
6	6
12	7
18	8
	10
6	11
12	12

L. wt.
1
2
3
4
5
6
7
8
9
10
11
20
30

Parts.	Mites.	Grain.	D. wt.
10	5	18	1
20	10	12	3
8	16	6	5
18	1	1	7
6	7	19	8
16	12	13	10
4	18	7	12
14	3	2	14
2	9	20	15
12	14	14	17
0	0	9	19

Parts.	Mites.	Grain.	D. wt.	Ounc.
10	5	6	1	1
20	10	9	2	2
8	16	13	3	3
18	1	16	4	4
6	7	19	5	5
16	12	22	6	6
4	18	5	7	7
14	3	8	9	8
2	9	12	10	9
12	14	0	11	10
0	0	17	12	11
2	9	3	2	21
14	3	6	14	31

Parts.	Mite.	Grai.	D. wt.
5	1	5	1
2	14	7	1
20	6	10	1
17	19	12	1
13	12	15	1
	8	1	
	4	0	
	2		
	1		
	11		
	16		

Parts.	Mites.	Grain.	D. wt.	Ounc.	L. wt.
10	5	18	1	1	1
20	10	12	3	2	2
8	16	6	5	3	3
18	1	1	7	4	4
6	7	19	8	5	5
16	12	13	10	6	6
4	18	7	12	7	7
14	3	2	14	8	8
2	9	20	15	9	9
12	14	14	17	10	10
0	0	9	19	11	11
2	9	3	2	21	20
14	3	6	14	31	30

Parts.	Mites.	Grain.	D. wt.
18	12	8	13
15			15
11	18	6	16
8	11	12	17
4	4	18	18
1	17		
19	9	xvj gr.	
16	2	viij gr.	
12	15	iiij gr.	
9	8	ij gr.	
	1	j gr.	

Parts.	Mites.	Grain.	D. wt.
18	12	2	0
15	5	5	0
11	18	7	0
8	11	10	0
4	4	13	0
1	17	15	0
19	9	18	0
16	2	21	0
12	15	23	0
9	8	2	1

Parts.	Grain.	D. wt.
18	6	1
15	12	2
11	18	3
8	6	5
4	12	6
1	18	7
19	6	8
16	12	10
12	18	11
9	12	12

Parts.	Mites.	Grain.	D.wt.	Ounc.
16	12	19	1	0
10	5	15	3	0
4	18	10	5	0
20	10	6	7	0
14	3	2	9	0
8	16	21	10	0
2	9	17	12	0
18	1	13	14	0
12	14	8	16	0
6	7	4	18	0
0	0	0	0	1

Parts.	Mites.	Grain.	D.wt.	Ounc.
16	12	19	1	1
10	5	15	3	2
4	18	10	5	3
20	10	6	7	4
14	3	2	9	5
8	16	21	10	6
2	9	17	12	7
18	1	13	14	8
12	14	8	16	9
6	7	4	18	10
0	0	0	0	11
12	14	8	16	12
6	7	4	18	13
0	0	0	0	14
12	14	8	16	15
6	7	4	18	16
0	0	0	0	17
12	14	8	16	18
6	7	4	18	19
0	0	0	0	20
12	14	8	16	21
6	7	4	18	22
0	0	0	0	23
12	14	8	16	24
6	7	4	18	25
0	0	0	0	26
12	14	8	16	27
6	7	4	18	28
0	0	0	0	29
12	14	8	16	30
6	7	4	18	31
0	0	0	0	32

Parts.	Mites.	Grain.	D.wt.	L.wt.
16	12	19	1	1
10	5	15	3	2
4	18	10	5	3
20	10	6	7	4
14	3	2	9	5
8	16	21	10	6
2	9	17	12	7
18	1	13	14	8
12	14	8	16	9
6	7	4	18	10
0	0	0	0	11
12	14	8	16	12
6	7	4	18	13
0	0	0	0	14
12	14	8	16	15
6	7	4	18	16
0	0	0	0	17
12	14	8	16	18
6	7	4	18	19
0	0	0	0	20
12	14	8	16	21
6	7	4	18	22
0	0	0	0	23
12	14	8	16	24
6	7	4	18	25
0	0	0	0	26
12	14	8	16	27
6	7	4	18	28
0	0	0	0	29
12	14	8	16	30
6	7	4	18	31
0	0	0	0	32

Parts.	Mites.	Grain.	D.wt.
12	2	14	4
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10

Parts.	Mites.	Grain.	D.wt.
12	2	14	4
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10

Parts.	Mites.	Grain.	D.wt.
12	2	14	4
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10
12	1	10	13
6	9	3	1
0	16	12	7
18	8	21	10

Grain.	D.wt.
21	1
18	3
15	5
12	7
9	9
6	11
3	13
0	15
21	16
18	18
15	0

Ounc.	D.wt.
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
1	0

Parts.	Mite.	Grain.	D.wt.
16	18	6	1
5	15	9	1
11	11	12	1
16	7	15	1
	3	18	1
		1	
	10		
	15		
11	7		
16	3		
	1		

Parts.	Mite.	Grain.	D.wt.
5	16	2	0
11	12	5	0
16	8	8	0
0	5	11	0
5	1	14	0
11	17	16	0
16	13	19	0
	10	22	0
5	6	1	1
11	2	4	1

Grain.	D.wt.
18	13
	15
6	16
12	17
18	18
gr.	xvj
gr.	viij
gr.	iiij
gr.	ij
gr.	j

Grain.	D.wt.
12	2
0	5
12	7
0	10
12	12
0	15
12	17
0	0
12	2
0	5
12	7
	10
	15

Ounc.
1
2
3
4
5
6
7
9
10
11
12
22
33

Grai.	D.wt.
6	1
12	2
18	3
	5
6	6
12	7
18	8
	10
6	11
12	12

L.wt.
1
2
3
4
5
6
7
8
9
10
11
20
30

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	0
12	14	20	3	0
18	1	19	5	0
2	9	17	7	0
8	16	15	9	0
14	3	14	11	0
20	10	12	13	0
4	18	10	15	0
10	5	9	17	0
16	12	7	19	0
0	0	6	1	1

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	1
12	14	20	3	2
18	1	19	5	3
2	9	17	7	4
8	16	15	9	5
14	3	14	11	6
20	10	12	13	8
4	18	10	15	9
10	5	9	17	10
16	12	7	19	11
0	0	6	1	12

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	2
12	14	20	3	3
18	1	19	5	4
2	9	17	7	5
8	16	15	9	6
14	3	14	11	8
20	10	12	13	9
4	18	10	15	10
10	5	9	17	11
16	12	7	19	12
0	0	6	1	13

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	3
12	14	20	3	4
18	1	19	5	5
2	9	17	7	6
8	16	15	9	8
14	3	14	11	9
20	10	12	13	10
4	18	10	15	11
10	5	9	17	12
16	12	7	19	13
0	0	6	1	14

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	4
12	14	20	3	5
18	1	19	5	6
2	9	17	7	8
8	16	15	9	9
14	3	14	11	10
20	10	12	13	11
4	18	10	15	12
10	5	9	17	13
16	12	7	19	14
0	0	6	1	15

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	6
12	14	20	3	7
18	1	19	5	8
2	9	17	7	9
8	16	15	9	10
14	3	14	11	12
20	10	12	13	13
4	18	10	15	14
10	5	9	17	15
16	12	7	19	16
0	0	6	1	17

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	7
12	14	20	3	8
18	1	19	5	9
2	9	17	7	10
8	16	15	9	11
14	3	14	11	13
20	10	12	13	14
4	18	10	15	15
10	5	9	17	16
16	12	7	19	17
0	0	6	1	18

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	8
12	14	20	3	9
18	1	19	5	10
2	9	17	7	11
8	16	15	9	12
14	3	14	11	15
20	10	12	13	16
4	18	10	15	17
10	5	9	17	18
16	12	7	19	19
0	0	6	1	20

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	12
12	14	20	3	13
18	1	19	5	14
2	9	17	7	15
8	16	15	9	17
14	3	14	11	18
20	10	12	13	19
4	18	10	15	20
10	5	9	17	21
16	12	7	19	22
0	0	6	1	23

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	15
12	14	20	3	17
18	1	19	5	18
2	9	17	7	19
8	16	15	9	21
14	3	14	11	22
20	10	12	13	23
4	18	10	15	24
10	5	9	17	25
16	12	7	19	26
0	0	6	1	27

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	16
12	14	20	3	18
18	1	19	5	19
2	9	17	7	20
8	16	15	9	22
14	3	14	11	23
20	10	12	13	24
4	18	10	15	25
10	5	9	17	26
16	12	7	19	27
0	0	6	1	28

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	19
12	14	20	3	20
18	1	19	5	21
2	9	17	7	23
8	16	15	9	24
14	3	14	11	25
20	10	12	13	26
4	18	10	15	27
10	5	9	17	28
16	12	7	19	29
0	0	6	1	30

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	20
12	14	20	3	22
18	1	19	5	23
2	9	17	7	24
8	16	15	9	26
14	3	14	11	27
20	10	12	13	28
4	18	10	15	29
10	5	9	17	30
16	12	7	19	31
0	0	6	1	32

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	23
12	14	20	3	24
18	1	19	5	25
2	9	17	7	27
8	16	15	9	28
14	3	14	11	29
20	10	12	13	30
4	18	10	15	31
10	5	9	17	32
16	12	7	19	33
0	0	6	1	34

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	24
12	14	20	3	26
18	1	19	5	27
2	9	17	7	28
8	16	15	9	30
14	3	14	11	31
20	10	12	13	32
4	18	10	15	33
10	5	9	17	34
16	12	7	19	35
0	0	6	1	36

Parts.	Mite.	Grain.	D.wt.	L. wt.
6	7	22	1	1
12	14	20	3	2
18	1	19	5	3
2	9	17	7	4
8	16	15	9	5
14	3	14	11	6
20	10	12	13	7
4	18	10	15	8
10	5	9	17	9
16	12	7	19	10
0	0	6	1	11
				12
				20
				30

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	12
12	14	20	3	13
18	1	19	5	14
2	9	17	7	15
8	16	15	9	17
14	3	14	11	18
20	10	12	13	19
4	18	10	15	20
10	5	9	17	21
16	12	7	19	22
0	0	6	1	23

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	15
12	14	20	3	17
18	1	19	5	18
2	9	17	7	19
8	16	15	9	21
14	3	14	11	22
20	10	12	13	23
4	18	10	15	24
10	5	9	17	25
16	12	7	19	26
0	0	6	1	27

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	16
12	14	20	3	18
18	1	19	5	19
2	9	17	7	20
8	16	15	9	22
14	3	14	11	23
20	10	12	13	24
4	18	10	15	25
10	5	9	17	26
16	12	7	19	27
0	0	6	1	28

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	19
12	14	20	3	20
18	1	19	5	21
2	9	17	7	23
8	16	15	9	24
14	3	14	11	25
20	10	12	13	26
4	18	10	15	27
10	5	9	17	28
16	12	7	19	29
0	0	6	1	30

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	20
12	14	20	3	22
18	1	19	5	23
2	9	17	7	24
8	16	15	9	26
14	3	14	11	27
20	10	12	13	28
4	18	10	15	29
10	5	9	17	30
16	12	7	19	31
0	0	6	1	32

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	23
12	14	20	3	24
18	1	19	5	25
2	9	17	7	27
8	16	15	9	28
14	3	14	11	29
20	10	12	13	30
4	18	10	15	31
10	5	9	17	32
16	12	7	19	33
0	0	6	1	34

Parts.	Mite.	Grain.	D.wt.	Ounc.
6	7	22	1	24
12	14	20	3	26
18	1	19	5	27
2	9	17	7	28
8	16	15	9	30
14	3	14	11	31
20	10	12	13	32
4	18	10	15	33
10	5	9	17	34
16	12	7	19	35
0	0	6	1	36

Parts.	Mite.	Grain.	D.wt.	Grains
21	17	18	13	xvj gr.
20	15	6	15	viij gr.
19	13	12	16	iiij gr.
18	11	18	17	ij gr.
17	9		18	j gr.
16	7			
15	5			
14	3			
12	1			

Parts.	Mite.	Grain.	D.wt.	Grains
11	17	7	1	20
10	15	10	1	10
9	13	13	1	5
8	11	16	1	2
7	9	19	1	1
20	10	1		
10	15	0		
16	7	0		
19	3	0		
20	1	0		

Parts.	Mite.	Grain.	D.wt.	Grains
21	17	2	0	6
20	15	5	0	12
19	13	8	0	18
18	11	11	1	0
17	9	14	1	6
16	7	17	1	12
15	5	20	1	18
14	3	23	2	0
12	1	2	2	6
		4		
		19		
		1		

Parts.	Mite.	Grain.	D.wt.	Grains
21	17	2	0	6
20	15	5	0	12
19	13	8	0	18
18	11	11	1	0
17	9	14	1	6
16	7	17	1	12
15	5	20	1	18
14	3	23	2	0
12	1	2	2	6
		4		
		19		
		1		

Ounc.	D.wt.	Grai.	Mites.	Parts.
0	1	23	14	12
0	3	23	9	2
0	5	23	3	14
0	7	22	18	4
0	9	22	12	16
0	11	22	7	6
0	13	22	1	18
0	15	21	16	8
0	17	21	10	20
0	19	21	5	10
1	1	21	0	0

L.wt.	Ounc.	D.wt.	Grai.	Mites.	Parts.
1	1	3	20	14	12
2	2	7	17	9	2
3	3	11	14	3	14
4	4	15	10	18	4
5	5	19	7	12	16
6	7	3	4	7	6
7	8	7	1	1	18
8	9	10	21	16	8
9	10	14	18	10	20
10	11	18	15	5	10
11	13	2	12	0	0
20	23	17	6	10	20
30	35	15	21	16	8

d.wt.	Grai.	Part.
13	18	
15		
16	6	
17	12	
18	18	
xvj	gr.	
viij	gr.	
iiij	gr.	
j	gr.	
	gr.	

D.wt.	Grai.	Mite.	Part.
1	8	16	5
1	11	15	20
1	14	15	12
1	17	15	5
1	20	14	19
	1	11	18
		15	20
		7	21
		3	21
		1	21

L.wt.	Gr.	d.wt.	Grai.	Mit.	Parts.
1	6	0	2	19	14
2	12	0	5	19	7
3	18	0	8	18	21
5		0	11	18	14
6	6	0	14	18	6
7	12	0	17	17	21
8	18	0	20	17	13
10		0	23	17	6
11	6	1	2	16	20
12	12	1	5	16	13

Parts.	Mite	Grai.	D.wt.	Ounc.
18	1	1	2	0
14	3	2	4	0
10	5	3	6	0
6	7	4	8	0
2	9	5	10	0
20	10	6	12	0
16	12	7	14	0
12	14	8	16	0
8	16	9	18	0
4	18	10	0	1
0		12	2	1

Parts.	Mite.	Grai.	D.wt.
0	15	9	1
8	16	12	1
16	17	15	1
2	19	18	1
10	0	22	1
18		1	
4	12		
12	16		
6	8		
14	4		
2	2		
10	1		

Grai.	D.wt.
12	13
6	15
12	16
18	17
	18
xvj gr.	
viij gr.	
iiij gr.	
ij gr.	
j gr.	

Parts.	Mite.	Grai.	D.wt.	Ounc.	L.wt.
18	1	1	4	2	1
14	3	2	9	3	2
10	5	4	13	4	3
6	7	5	18	6	4
2	9	7	2	7	5
20	10	8	7	8	6
16	12	9	11	9	7
12	14	11	16	11	8
8	16	12	0	12	9
4	18	13	5	13	10
0	1	15	10	14	11
	3	16	15	15	12
	5	18	21	16	13
	7	19	0	18	14
	9	21	5	19	15
	10	22	10	20	16
	12	24	16	21	17
	14	25	21	22	18
	16	26	0	24	19
	18	28	5	25	20
	0	29	10	26	21
		30	16	28	22
		31	21	29	23
		33	0	30	24
		34	6	32	25
		35	11	33	26
		36	16	34	27
			22	36	28
			0		29
			6		30
			11		31
			16		32
			22		33
			0		34
			6		35
			11		36
			16		
			22		
			0		
			6		
			11		
			16		
			22		

Grai.	D.wt.
6	1
12	2
18	3
6	5
12	6
18	7
6	8
12	10
18	11
6	12
12	13
18	14
6	16
12	17
18	18
6	19
12	21
18	22
6	
12	
18	
6	
12	

Parts.	Mites.	Grai.	D.wt.	Ounc.
2	9	2	2	0
4	18	4	4	0
6	7	7	6	0
8	16	9	8	0
10	5	12	10	0
12	14	14	12	0
14	3	17	14	0
16	12	19	16	0
18	1	22	18	0
20	10	0	1	1
0	0	3	3	1

Part.	Mite.	Grai.	D.wt.
18	16	13	1
19	19	16	1
21	2	20	1
0	6	23	1
		2	
14	13		
18	16		
9	8		
4	4		
2	2		

Parts.	Mites.	Grai.	D.wt.	Ounc.	L.wt.
2	9	5	5	1	1
4	18	10	10	2	2
6	7	16	15	3	3
8	16	21	0	5	4
10	5	3	6	6	5
12	14	8	11	7	6
14	3	14	16	8	7
16	12	19	1	10	8
18	1	1	7	11	9
20	10	6	12	12	10
0	0	12	17	13	11
18	1	13	4	25	20
16	12	19	12	37	30

Parts	Mit.	Grai	d.wt.	Gr.	d.wt.
1	3	3	0	6	1
3	6	6	0	12	2
4	9	9	0	18	3
6	12	12	0	6	5
7	15	15	0	12	6
9	18	18	0	18	7
10	1	22	0		8
12	4	1	1		10
13	7	4	1	6	11
15	10	7	1	12	12
16	13	10	1	18	13

Grai.	d.wt.
6	15
12	16
18	17
	18
gr.	xvj
gr.	viij
gr.	iiij
gr.	ij
gr.	j

Parts.	Mite.	Grai.	D.wt.	Ounc.
8	16	3	2	0
16	12	7	4	0
2	9	11	6	0
10	5	15	8	0
18	1	19	10	0
4	18	22	12	0
12	14	2	15	0
20	10	6	17	0
6	7	10	19	0
14	3	14	1	1
0	0	18	3	1

Parts.	Mite.	Grai.	D.wt.	Ounc.
8	16	21	5	1
16	12	19	11	2
2	9	17	17	3
10	5	15	3	5
18	1	13	9	6
4	18	10	15	7
12	14	8	1	9
20	10	6	7	10
6	7	4	13	11
14	3	2	19	12
0	0	0	5	14
6	7	4	18	25
20	0	6	17	38

L.wt.
1
2
3
4
5
6
7
8
9
10
11
20
30

Parts.	Mite.	Grai.	D.wt.	Ounc.
11	12	11	1	0
6	17	14	1	0
1	2	18	1	0
18	6	21	1	0
13	11	0	2	0
12	15	1		0
6	0	4		0
0	4	7		0
14	8	11		0
8	13	14		0
2	17	17		0
16	2	21		0
10	6	24		0
4	11	27		0
18	15	30		0
12	20	33		0
6	24	36		0
0	29	39		0
14	33	42		0
8	38	45		0
2	42	48		0
16	47	51		0
10	51	54		0
4	56	57		0
18	60	60		0
12	65	63		0
6	69	66		0
0	74	69		0
14	78	72		0
8	83	75		0
2	87	78		0
16	92	81		0
10	96	84		0
4	101	87		0
18	105	90		0
12	110	93		0
6	114	96		0
0	119	99		0
14	123	102		0
8	128	105		0
2	132	108		0
16	137	111		0
10	141	114		0
4	146	117		0
18	150	120		0
12	155	123		0
6	159	126		0
0	164	129		0
14	168	132		0
8	173	135		0
2	177	138		0
16	182	141		0
10	186	144		0
4	191	147		0
18	195	150		0
12	200	153		0
6	204	156		0
0	209	159		0
14	213	162		0
8	218	165		0
2	222	168		0
16	227	171		0
10	231	174		0
4	236	177		0
18	240	180		0
12	245	183		0
6	249	186		0
0	254	189		0
14	258	192		0
8	263	195		0
2	267	198		0
16	272	201		0
10	276	204		0
4	281	207		0
18	285	210		0
12	290	213		0
6	294	216		0
0	299	219		0
14	303	222		0
8	308	225		0
2	312	228		0
16	317	231		0
10	321	234		0
4	326	237		0
18	330	240		0
12	335	243		0
6	339	246		0
0	344	249		0
14	348	252		0
8	353	255		0
2	357	258		0
16	362	261		0
10	366	264		0
4	371	267		0
18	375	270		0
12	380	273		0
6	384	276		0
0	389	279		0
14	393	282		0
8	398	285		0
2	402	288		0
16	407	291		0
10	411	294		0
4	416	297		0
18	420	300		0
12	425	303		0
6	429	306		0
0	434	309		0
14	438	312		0
8	443	315		0
2	447	318		0
16	452	321		0
10	456	324		0
4	461	327		0
18	465	330		0
12	470	333		0
6	474	336		0
0	479	339		0
14	483	342		0
8	488	345		0
2	492	348		0
16	497	351		0
10	501	354		0
4	506	357		0
18	510	360		0
12	515	363		0
6	519	366		0
0	524	369		0
14	528	372		0
8	533	375		0
2	537	378		0
16	542	381		0
10	546	384		0
4	551	387		0
18	555	390		0
12	560	393		0
6	564	396		0
0	569	399		0
14	573	402		0
8	578	405		0
2	582	408		0
16	587	411		0
10	591	414		0
4	596	417		0
18	600	420		0
12	605	423		0
6	609	426		0
0	614	429		0
14	618	432		0
8	623	435		0
2	627	438		0
16	632	441		0
10	636	444		0
4	641	447		0
18	645	450		0
12	650	453		0
6	654	456		0
0	659	459		0
14	663	462		0
8	668	465		0
2	672	468		0
16	677	471		0
10	681	474		0
4	686	477		0
18	690	480		0
12	695	483		0
6	699	486		0
0	704	489		0
14	708	492		0
8	713	495		0
2	717	498		0
16	722	501		0
10	726	504		0
4	731	507		0
18	735	510		0
12	740	513		0
6	744	516		0
0	749	519		0
14	753	522		0
8	758	525		0
2	762	528		0
16	767	531		0
10	771	534		0
4	776	537		0
18	780	540		0
12	785	543		0
6	789	546		0
0	794	549		0
14	798	552		0
8	803	555		0
2	807	558		0
16	812	561		0
10	816	564		0
4	821	567		0
18	825	570		0
12	830	573		0
6	834	576		0
0	839	579		0
14	843	582		0
8	848	585		0
2	852	588		0
16	857	591		0
10	861	594		0
4	866	597		0
18	870	600		0
12	875	603		0
6	879	606		0
0	884	609		0
14	888	612		0
8	893	615		0
2	897	618		0
16	902	621		0
10	906	624		0
4	911	627		0
18	915	630		0
12	920	633		0
6	924	636		0
0	929	639		0
14	933	642		0
8	938	645		0
2	942	648		0
16	947	651		0
10	951	654		0
4	956	657		0
18	960	660		0
12	965	663		0
6	969	666		0
0	974	669		0
14	978	672		0
8	983	675		0
2	987	678		0
16	992	681		0
10	996	684		0
4	1001	687		0
18	1005	690		0
12	1010	693		0
6	1014	696		0
0	1019	699		0
14	1023	702		0
8	1028	705		0
2	1032	708		0
16	1037	711		0
10	1041	714		0
4	1046	717		0
18	1050	720		0
12	1055	723		0
6	1059	726		0
0	1064	729		0
14	1068	732		0
8	1073	735		0
2	1077	738		0
16	1082	741		0
10	1086	744		0
4	1091	747		0
18	1095	750		0
12	1100	753		0
6	1104	756		0
0	1109	759		0
14	1113	762		0
8	1118	765		0
2	1122	768		0
16	1127	771		0
10	1131	774		0
4	1136	777		0
18	1140	780		0
12	1145	783		0
6	1149	786		0
0	1154	789		0
14	1158	792		0
8	1163	795		0
2	1167	798		0
16	1172	801		0
10	1176	804		0
4	1181	807		0
18	1185	810		0
12	1190	813		0
6	1194	816		0
0	1199	819		0
14	1203	822		0
8	1208	825		0
2	1212	828		0
16	1217	831		0
10	1221	834		0
4	1226	837		0
18	1230	840		0
12	1235	843		0
6	1239	846		0
0	1244	849		0
14	1248	852		0
8	1253	855		0
2	1257	858		0
16	1262	861		0
10	1266	864		0
4	1271	867		0
18	1275	870		0
12	1280	873		0
6	1284	876		0
0	1289	879		0
14	1293	882		0
8	1298	885		0
2	1302	888		0
16	1307	891		0
10	1311	894		0
4	1316	897		0
18	1320	900		0
12	1325	903		0
6	1329	906		0
0	1334	909		0
14	1338	912		0
8	1343	915		0
2	1347	918		0
16	1352	921		0
10	1356	924		0
4	1361	927		0
18	1365	930		0
12	1370	933		0
6	1374	936		0
0	1379	939		0
14	1383	942		0
8	1388	945		0
2	1392	948		0
16	1397	951		0
10	1401	954		0
4	1406	957		0
18	1410	960		0
12	1415	963		0
6	1419	966		0
0	1424	969		0
14	1428	972		0
8	1433	975		0
2	1437	978		0
16	1442	981		0
10	1446	984		0
4	1451	987		0
18	1455	990		0
12	1460	993		0
6	1464	996		0
0	1469	999		0
14	1473	1002		0
8	1478	1005		0
2	1482	1008		0
16	1487	1011		0
10	1491	1014		0
4	1496	1017		0
18	1500	1020		0
12	1505	1023		0
6	1509	1026		0
0	1514	1029		0
14	1518	1032		0
8	1523	1035		0
2	1527	1038		0
16	1532	1041		0
10	1536	1044		0
4	1541	1047		0
18	1545	1050		0
12	1550	1053		0
6	1554	1056		0
0	1559	1059		0
14	1563	1062		0
8	1568	1065		0
2	1572	1068		0
16	1577	1071		0
10	1581	1074		0
4	1586	1077		0
18	1590	1080		0
12	1595	1083		0
6	1599	1086		0
0	1604	1089		0
14	1608	1092		0
8	1613	1095		0
2	1617	1098		0
16	1622	1101		0
10	1626	1104		0
4	1631	1107		0
18	1635	1110		0
12	1640	1113		0
6	1644	1116		0
0	1649	1119		0
14	1653	1122		0
8	1658	1125		0
2	1662	1128		0
16	1667	1131		0
10	1671	1134		0
4	1676	1137		0
18	1680	1140		0
12	1685	1143		0
6	1689	1146		0
0	1694	1149		0
14	1698	1152		0
8	1703	1155		0
2	1707	1158		0
16	1712	1161		0
10	1716	1164		0
4	1721	1167		0
18	1725	1170		0
12	1730	1173		0
6	1734	1176		0
0	1739	1179		0
14	1743	1182		0
8	1748	1185		0
2	1752	1188		0
16	1757	1191		0
10	1761	1194		0
4	1766	1197		0
18	1770	1200		0
12	1775	1203		0
6	1779	1206		0
0	1784	1209		0
14	1788	1212		0
8	1793	1215		0
2	1797	1218		0
16	1802	1221		0
10	1806	1224		0
4	1811	1227		0
18	1815	1230		0
12	1820	1233		0
6	1824	1236		0
0	1829	1239		0
14	1833	1242		0
8	1838	1245		0
2	1842	1248		0
16	1847	1251		0
10	1851	1254		0
4	1856	1257		0
18	1860	1260		0
12	1865	1263		0
6	1869	1266		0
0	1874	1269		0
14	1878	1272		0
8	1883	1275		0
2	1887	1278		0
16	1892	1281		0
10	1896	1284		0
4	1901	1287		0
18	1905	1290		0
12	1910	1293		0
6	1914	1296		0
0	1919	1299		0
14	1923	1302		0
8	1928	1305		0
2	1932	1308		0
16	1937	1311		0
10	1941	1314		0
4	1946	1317		0
18	1950	1320		0
12	1955	1323		0
6	1959	1326		0
0	1964	1329		0
14	1968	1332		0
8	1973	1335		0
2	1977	1338		0
16	1982	1341		0
10	1986	1344		0
4	1991	1347		0
18	1995	1350		0
12	2000	1353		0
6	2004	1356		0
0	2009	1359		0
14	2013	1362		0
8	2018	1365		0
2	2022	1368		0
16	2027	1371		0
10	2031	1374		0
4	2036	1377		0
18	2040	1380		0
12	2045	1383		0
6	2049	1386		0
0	2054	1389		0
14	2058	1392		0
8	2063	1395		0
2	2067	1398		0
16	2072	1401		0
10	2076	1404		0
4	2081	1407		0
18	2085	1410		0
12	2090	1413		0
6	2094	1416		0
0	2099	1419		0
14	2103	1422		0
8	2108	1425		0
2	2112	1428		0
16	2117	1431		0
10	2121	1434		0
4	2126	1437		0
18	2130	1440		0
12	2135	1443		0
6	2139	1446		0
0	2144	1449		0
14	2148	1452		0
8	2153	1455		0
2	2157	1458		0
16	2162	1461		0
10	2166	1464		0
4	2171	1467		0
18	2175	1470		0
12	2180	1473		0
6	2184	1476		0
0	2189	1479		0
14	2193	1482		0
8	2198	1485		0
2	2202	1488		0
16	2207	1491		0
10	2211	1494		0
4	2216	1497		0
18	2220	1500		0
12	2225	1503		0
6	2229	1506		0
0	2234	1509		0
14	2238	1512		0
8	2243	1515		0
2	2247	1518		0
16	2252	1521		0
10	2256	1524		0
4	2261	1527		0
18	2265	1530		0
12	2270	1533		0
6	2274	1536		0
0	2279	1539		0
14	2283	1542		0
8	2288	1545		0
2	2292	1548		0
16	2297	1551		0
10	2301	1554		0
4	2306	1557		0
18	2310	1560		0
12	2315	1563		0
6	2319	1566		0
0	2324	1569		0
14	2328	1572		0
8	2333	1575		0
2	2337	1578		0
16	2342	1581		0
10	2346	1584		0
4	2351	1587		0
18	2355	1590		0
12	2360	1593		0
6	2364	1596		0
0	2369	1599		0
14	2373	1602		0
8	2378	1605		0
2	2382	1608		0
16	2387	1611		0
10	2391	1614		0
4	2396	1617		0
18	2400	1620		0
12	2405	1623		0
6	2409	1626		0
0	2414	1629		0
14	2418	1632		0
8	2423	1635		0
2	2427	1638		0
16	2432	1641		0
10	2436	1644		0
4	2441	1647		0
18	2445	1650		0
12	2450	1653		0
6	2454	1656		0
0	2459	1659		0
14	2463	1662		0
8	2468	1665		0
2	2472	1668		0
16	2477	1671		0
10	2481	1674		0
4	2486	1677		0
18	2490	1680		0
12	2495	1683		0
6	2499	1686		0
0	2504	1689		0
14	2508	1692		0
8	2513	1695		0
2	2517	1698		0
16	2522	1701		0
10	2526	1704		0
4	2531	1707		0
18	2535	1710		0
12	2540	1713		0
6	2544	1716		0
0	2549	1719		0
14	2553	1722		0
8	2558	1725		0
2	2562	1728		0
16	2567	1731		0
10	2571	1734		0
4	2576	1737		0
18	2580	1740		0
12	2585	1743		0
6	2589	1746		0
0	2594	1749		0
14	2598	1752		0
8	2603	1755		0
2	2607	1758		0
16	2612	1761		0
10	2616	1764		0
4	2621	1767		0
18	2625	1770		0
12	2630	1773		0
6	2634	1776		0
0	2639	1779		0
14	2643	1782		0
8	2648	1785		0
2	2652	1788		0
16	2657	1791		0
10	2661	1794		0
4	2666	1797		0
18	2670	1800		0
12	2675	1803		0
6	2679	1806		0
0	2684	1809		0
14	2688	1812		0
8	2693	1815		0
2	2697	1818		0
16	2702	1821		0
10	2706	1824		0
4	2711	1827		0
18	2715	1830		0
12	2720	1833		0
6	2724	1836		0
0	2729	1839		0
14	2733	1842		0
8	2738	1845		0
2	2742	1848		0
16	2747	1851		0
10	2751	1854		0
4	2756	1857		0
18	2760	1860		0
12	2765	1863		0
6	2769	1866		0
0	2774	1869		0
14	2778	1872		0
8	2783	1875		0
2	2787	1878		0
16	2792	1881		0
10	2796	1884		0
4	2801	1887		0
18	2805	1890		0
12	2810	1893		0
6	2814	1896		0
0	2819	1899		0
14	2823	1902		0
8	2828	1905		0
2	2832	1908		0
16	2837	1911		0
10	2841	1914		0
4	2846	1917		0
18	2850	1920		0
12	2855	1923		0
6	2859	1926		0
0	2864	1929		0
14	2868	1932		0
8	2873	1935		0
2	2877	1938		0
16	2882	1941		0
10	2886	1944		0
4	2891	1947		0
18	2895	1950		0
12	2900	1953		0
6	2904	1956		0
0	2909	1959		0
14	2913	1962		0
8	2918	1965		0
2	2922	1968		0
16	2927	1971		0
10	2931	1974		0
4	2936	1977		0
18	2940	1980		0
12	2945	1983		0
6	2949	1986		0
0	2954	1989		0
14	2958	1992		0
8	2963	1995		0
2	2967	1998		0
16	2972	2001		0
10	2976	2004		0
4	2981	2007		0
18	2985	2010		0
12	2990	2013		0
6	2994	2016		0
0	2999	2019		0
14	3003	2022		0
8	3008	2025		0
2	3012	2028		0
16	3017	2031		0
10	3021	2034		0
4	3026	2037		0
18	3030	2040		0
12	3035	2043		0
6	3039	2046		0
0	3044	2049		0
14	3048	2052		0
8	3053	2055		0
2	3057	2058		0
16	3062	2061		0
10	3066	2064		0
4	3071	2067		0
18	3075	2070		0
12	3080	2073		0
6	3084	2076		0
0	3089	2079		0
14	3093	2082		0
8	3098	2085		0
2	3102	2088		0
16	3107	2091		0
10	3111	2094		0
4	3116	2097		0
18	3120	2100		0
12	3125	2103		0
6	3129	2106		0
0	3134	2109		0
14	3138	2112		0
8	3143	2115		0
2	3147	2118		0
16	3152	2121		0
10	3156	2124		0
4	3161	2127		0
18	3165	2130		0
12	3170	2133		0
6	3174	2136		0
0	3179	2139		0
14	3183	2142		0
8	3188	2145		0
2	3192	2148		0
16	3197	2151		0
10	3201	2154		0
4	3206	2157		0
18	3210	2160		0
12	3215	2163		0
6	3219	2166		0
0	3224	2169		0
14	3228	2172		0
8	3233	2175		0
2	3237	2178		0
16	3242	2181		0
10	3246	2184		0
4	3251	2187		0
18	3255	2190		0
12	3260	2193		0
6	3264	2196		0
0	3269	2199		0
14	3273	2202		0
8	3278	2205		0
2	3282	2208		0
16	3287	2211		0
10	3291	2214		0
4	3296	2217		0
18	3300	2220		0
12	3305	2223		0
6	3309	2226		0
0	3314	2229		0
14	3318	2232		0
8	3323	2235		0
2	3327	2238

Parts.	Mites.	Grain.	D.wt.	Onc.
14	3	5	2	0
6	7	10	4	0
20	10	15	6	0
12	14	20	8	0
4	18	1	11	0
18	1	7	13	0
10	5	12	15	0
2	9	17	17	0
16	12	22	19	0
8	16	3	2	1
0	0	9	4	1

Parts.	Mites.	Grain.	D.wt.
5	11	12	1
16	17	15	1
4	4	19	1
15	0	22	1
3	17	1	2
10	15	1	
16	17	0	
19	8	0	
9	4	0	
2	0	0	
9	4	0	

Parts.	Mites.	Grain.	D.wt.
14	3	4	6
6	7	4	13
20	10	18	19
12	14	8	6
4	18	22	12
18	1	13	19
10	5	3	6
2	9	17	12
16	12	7	19
8	16	21	5
0	0	12	12
16	0	19	11
2	0	17	17

Onuc.	L.wt.
1	1
2	2
3	3
5	4
6	5
7	6
9	7
10	8
11	9
13	10
14	11
26	20
39	30

Parts.	Mites.	Grain.	D.wt.
10	0	3	0
21	12	6	0
9	19	0	0
20	13	5	0
8	16	12	0
19	19	0	0
7	23	5	0
18	2	11	1
6	5	18	1
17	9	4	1

Grain.	D.wt.
18	13
	15
6	16
12	17
18	18
gr.	xvj
gr.	viij
gr.	iiij
gr.	ij
gr.	)

Parts.	Grain.	D.wt.
0	6	1
12	12	2
18	18	3
		5
6		6
12	6	7
18	12	8
	18	10
		11
6		12
12		

Parts.	20	18	16	14	12	10	8	6	4	2	0
Mite	10	1	12	3	14	5	16	7	18	9	0
Grai.	6	13	19	2	8	15	21	4	10	17	0
D.wt.	2	4	6	9	11	13	15	18	0	2	5
Ounc.	0	0	0	0	0	0	0	0	1	1	1

Parts.	0	4	8	12	16	8	4	0
Mite.	10	18	6	14	2	16	0	4	12
Grai.	13	16	20	23	3	1	16	0	0
D.wt.	1	1	1	1	2				

Grai.	18							
D.wt.	13	15	16	17	18	xvj	viij	iiij	ij

Parts.	0	4	8	12	16	20	2	6	10	14	18
Mite.	8	16	4	12	0	9	17	5	13	1	
Grai.	36	10	13	17	20	23	3	6	10		
D.wt.	0	0	0	0	0	0	1	1			

Parts.	20	18	16	14	12	10	8	6	4	2	0
Mite.	10	1	12	3	14	5	16	7	18	9	0
Grai.	6	13	19	2	8	15	21	4	10	17	0
D.wt.	7	14	1	9	16	3	10	18	5	12	0
Ounc.	1	2	4	5	6	8	9	10	12	13	15
L.wt.	1	2	3	4	5	6	7	8	9	10	11

Parts.	0	8	16	4	12	20	9	17	5	13	1
Grai.	36	10	13	17	20	23	3	6	10		
D.wt.	0	0	0	0	0	0	1	1			

Grai.	6	12	18		6	12	18				
D.wt.	1	2	3	5	6	7	8	10	11	12	

Parts.	0	4	8	12	16	8	4	0
Mite.	10	18	6	14	2	16	8	4	12
Grai.	13	16	20	23	3	1	16	0	0
D.wt.	1	1	1	1	2				

Grai.	18							
D.wt.	13	15	16	17	18	xvj	viij	iiij	ij

Parts.	0	4	8	12	16	20	2	6	10	14	18
Mite.	8	16	4	12	0	9	17	5	13	1	
Grai.	36	10	13	17	20	23	3	6	10		
D.wt.	0	0	0	0	0	0	1	1			

Grai.	6	12	18		6	12	18				
D.wt.	1	2	3	5	6	7	8	10	11	12	

Two Carracts 2 Grains *and a quar. At the* Ounce.

L.wt.	Ounc.	D.wt.	Grai.	Mites	Parts.
1	1	7	22	18	4
2	2	15	21	16	8
3	4	3	20	14	12
4	5	11	19	12	16
5	6	19	18	10	20
6	8	7	17	9	2
7	9	15	16	7	6
8	11	3	15	5	10
9	12	11	14	3	14
10	13	19	13	1	18
11	15	7	12	0	0
20	27	19	2	3	14
30	41	18	15	5	10

Ounc.	D.wt.	Grai.	Mites.	Parts.
0	2	7	18	4
0	4	15	16	8
0	6	23	14	12
0	9	7	12	16
0	11	15	10	20
0	13	23	9	2
0	16	7	7	6
0	18	15	5	10
1	0	23	3	14
1	3	7	1	18
1	5	15	0	0

d.wt.	Gr.
1	6
2	12
3	18
5	
6	6
7	12
8	18
10	
11	6
12	12

d.wt.	Grai.	Mit.	Parts
0	3	9	19
0	6	19	17
0	10	9	14
0	13	19	12
0	17	9	9
0	20	19	7
1	0	9	4
1	3	19	2
1	7	9	21

d.wt.	Grai.
12	12
13	18
15	
16	6
17	12
18	18
xvj	gr.
viij	gr.
iiij	gr.

D.wt.	Grai.	Mite.	Part.
1	10	18	19
1	14	8	16
1	17	18	4
1	21	8	11
2	0	18	9
2	4	8	6
	1	17	6
		18	14
		9	7

Parts.	Mites.	Grain.	D.wt.	Ounc.
10	5	9	2	0
20	10	18	4	0
8	16	3	7	0
18	1	13	9	0
6	7	22	11	0
16	12	7	14	0
4	18	16	16	0
14	3	2	19	0
2	9	11	1	1
12	14	6	3	1
0	0	0	6	1

Grain.	D.wt.
18	13
6	15
12	16
18	17
	18

Parts.	Mite.	Grai.	D.wt.
11	7	15	1
2	19	18	1
15	10	22	1
6	2	2	2
19	13	5	2
4	18	1	xvj gr.
2	19	0	viij gr.
12	9	0	iiij gr.
17	4	0	ij gr.
8	2		j gr.

Parts.	Mites.	Grain.	D.wt.	Ounc.
10	5	15	8	1
20	10	6	17	2
8	16	21	5	4
18	1	13	14	5
6	7	4	3	7
16	12	19	11	8
4	18	10	0	10
14	3	2	9	11
2	9	17	17	12
12	14	8	6	14
0	0	0	15	15
			12	28
			19	42

Parts.	Mites.	Grain.	D.wt.
13	11	3	0
4	3	7	0
17	14	10	0
8	6	14	0
21	17	17	0
12	9	21	0
3	1	1	1
16	12	4	1
7	4	8	1
20	15	11	1

L.wt.	D.wt.	Grain.
1	1	6
2	2	12
3	3	18
4	5	
5	6	6
6	7	12
7	8	18
8	10	
9	11	6
10	12	12
11		
20		
30		

Two Carracts 2 Grains *three quar. At the* Ounce.

L.wt.	Ounc.	D.wt.	Grai.	Mites	Parts.
1	1	9	7	12	16
2	2	18	15	5	10
3	4	7	22	18	4
4	5	17	6	10	20
5	7	6	14	3	14
6	8	15	21	16	8
7	10	5	5	9	2
8	11	14	13	1	18
9	13	3	20	14	12
10	14	13	4	7	6
11	16	2	12	0	0
20	43	6	8	14	12
30	29	10	13	1	18

Ounc.	D.wt.	Grai.	Mites	Parts.
0	2	10	12	16
0	4	21	5	10
0	7	7	18	4
0	9	18	10	20
0	12	5	3	14
0	14	15	16	8
0	17	2	9	2
0	19	13	1	18
1	1	23	14	12
1	4	10	7	6
1	6	21	0	0

d.wt.	Gr.
1	6
2	12
3	18
5	
6	6
7	12
8	18
10	
11	6
12	12

d.wt.	Grai	Mit.	Parts
0	3	13	6
0	7	6	13
0	10	19	19
0	14	13	4
0	18	6	10
0	21	19	17
1	1	13	1
1	5	6	8
1	8	19	14
1	12	12	21

d.wt.	Grai.
13	18
15	
16	6
17	12
18	18
xvj	gr.
viij	gr.
iiij	gr.
ij	gr.
j	

D.wt.	Grai.	Mite.	Part.
1	16	6	5
1	19	19	12
1	23	12	18
2	3	6	3
2	6	19	9
	1	19	2
		19	12
		9	17
		4	19
		2	9

Grain.	D.wt.
12	2
0	5
12	7
0	10
12	12
0	15
12	17
0	20
12	2
0	5
12	7

Ounc.	D.wt.
0	0
0	0
0	0
0	1
1	1
1	1

Parts.	Mite.	Grain.	D.wt.
	5	17	1
	15	21	1
	10	0	2
	5	4	2
	mi	8	2
	0	gr.	
	0	2	
	0	1	
pt	5	0	
11	2		

Ounc.	D.wt.
1	10
3	0
4	0
6	1
7	0
9	0
10	1
12	0
13	0
15	1
16	0
30	1
45	0

Grain.	D.wt.
18	13
6	15
12	16
18	17
	18
gr.	xvj
gr	viij
gr.	iiij
gr.	ij
gr.	j

Mite.	Grain.	D.wt.
15	3	0
0	7	0
5	11	0
	15	0
15	18	0
10	22	0
5	2	1
	6	1
15	9	1
10	13	1

L. wt.	Grai.	D.wt.
-	6	-
2	12	2
3	18	3
4	-	5
5	6	6
6	12	7
7	18	8
8	-	10
9	6	11
10	12	12
11		
20		
30		

Parts.	Mites.	Grai.	D.wt.	Ounc.
2	7	13	2	0
4	14	2	5	0
6	21	16	7	0
8	28	5	10	0
10	35	18	12	0
12	42	8	15	0
14	49	21	17	0
16	56	10	0	1
18	63	24	3	1
20	70	13	5	1
22	77	3	8	1

Part.	Mite.	Grai.	d.wt.
16	3	18	1
18	0	22	1
20	17	1	2
22	31	5	2
24	45	9	2
26	59	13	3
28	73	17	3
30	87	21	4
32	101	1	4
34	115	5	5
36	129	9	5

Grai.	L.wt.
18	1
6	2
12	3
18	4
6	5
12	6
18	7
6	8
12	9
18	10
6	11
12	12

Parts.	Mites.	Grai.	D.wt.	Ounc.
6	7	16	10	1
12	14	1	1	3
18	1	9	2	6
2	8	17	2	7
14	16	9	3	9
20	10	18	4	10
4	18	10	5	12
10	12	19	6	13
16	0	12	17	15
0	5	15	13	30
10	18	4	0	46

Part.	Mite.	Gr.	D.w.
1 5	16	3	0 0
9 2	13	7	0 0
18	10	11	0 0
11 5	6	15	0 0
20	3	19	0 0
14	0	23	1
7	13	6	1
1	10	10	1
	7	14	1

Grai.	l.wt.
18	13
	15
6	16
12	17
18	18

gr.	
xviij	
viij	
iiij	
ij	
j	

Parts.	Mite.	Grain.	D. wt.	Ounc.
12	14	14	2	0
2	9	5	5	0
14	3	20	7	0
4	18	10	10	0
16	12	1	13	0
6	7	16	15	0
18	1	7	18	0
8	16	21	0	1
20	10	12	3	1
10	5	3	6	1
0	0	18	8	1

Grain.	D. wt.
18	13
	15
6	16
12	17
18	18
	xvj
	viij
	iiij
	ij
	j

Parts.	Mite.	Grain.	D. wt.
11	2	19	1
20	0	23	1
7	19	2	2
16	17	6	2
3	16	10	2
18	2	1	
20	1	0	
10	0	0	
5	0	0	
15	2	0	

Parts.	Mite.	Grain.	D. wt.	Ounc.
12	14	8	1	1
2	9	17	2	3
14	3	2	3	4
4	18	10	5	6
16	12	19	6	7
6	7	4	8	9
18	1	13	9	10
8	16	21	11	12
20	10	6	12	14
10	5	15	13	15
0	0	0	15	17
20	10	6	21	31
8	16	21	16	47

Parts.	Mite.	Grain.	D. wt.
9	18	3	0
18	16	7	0
5	15	11	0
14	13	15	0
1	12	19	0
10	10	23	0
19	8	3	1
6	7	7	1
15	5	11	1
2	4	15	1

Grain.	D. wt.
6	1
12	2
18	3
6	5
12	6
18	7
6	8
12	10
18	11
6	12
12	13
18	15
6	16
12	17
18	18
6	20
12	21
18	23
6	25
12	26
18	28
6	30
12	31
18	33
6	35
12	36

L. wt.
1
2
3
4
5
6
7
8
9
10
11
20
30

Parts.	Mite.	Grai.	D.wt.	Ounc
18	1	16	2	0
14	3	8	5	0
10	5	0	8	0
6	7	16	1	0
2	9	8	13	0
20	10	0	16	0
16	12	16	18	0
12	14	8	1	1
8	16	0	4	1
4	18	16	6	1
0			9	1

Parts.	Mite.	Grai.	D wt.
18	1	20	1
14	3	0	2
10	5	4	2
6	7	8	2
2	9	12	2
20	10	16	2
16	12	20	2
12	14	0	3
8	16	4	3
4	18	8	3
0		12	3

Grai.	D.wt.
18	13
	15
6	16
12	17
18	18
gr.	xvj
gr	viij
gr	iiij
gr.	ij
gr	j

Parts.	Mite.	Grai.	D.wt.
2	0	4	0
5	0	8	0
7	0	12	0
10	0	16	0
12	0	20	0
15	1	0	0
17	1	4	1
20	1	8	1
0	1	12	1
3	1	16	1

L.wt.	Grai.	D.wt.
1	6	1
2	12	2
3	18	3
5		5
6	6	6
7	12	7
8	18	8
10		10
11	6	11
12	12	12

Parts.	Mite.	Grai.	D.wt.	Omnc.
18	1	1	12	1
14	3	2	4	3
10	5	3	16	4
6	7	4	8	6
2	9	5	0	8
20	10	6	12	9
16	12	7	4	11
12	14	8	16	12
8	16	9	8	14
4	18	10	0	16
0	0	12	12	17
8	16	21	0	32
12	14	8	1	48

Parts.	2	4	6	8	10	12	14	16	18	20	0
Mite.	9	8	7	6	5	4	3	2	1	0	
Grai.	17	10	4	21	15	8	2	19	13	6	0
D.wt.	2	5	8	10	13	16	19	1	4	7	10
Ounc.	0	0	0	0	0	0	0	1	1	1	1

Parts.	2	4	6	8	10	12	14	16	18	20	0
Mite.	9	8	7	6	5	4	3	2	1	0	
Grai.	17	10	4	21	15	8	2	19	13	6	0
D.wt.	2	5	8	10	13	16	19	1	4	7	10
Ounc.	0	0	0	0	0	0	0	1	1	1	1

Parts.	2	4	6	8	10	12	14	16	18	20	0
Mite.	9	8	7	6	5	4	3	2	1	0	
Grai.	17	10	4	21	15	8	2	19	13	6	0
D.wt.	2	5	8	10	13	16	19	1	4	7	10
Ounc.	0	0	0	0	0	0	0	1	1	1	1

Parts.	2	4	6	8	10	12	14	16	18	20	0
Mite.	9	8	7	6	5	4	3	2	1	0	
Grai.	17	10	4	21	15	8	2	19	13	6	0
D.wt.	2	5	8	10	13	16	19	1	4	7	10
Ounc.	0	0	0	0	0	0	0	1	1	1	1

Parts.	2	4	6	8	10	12	14	16	18	20	0
Mite.	9	8	7	6	5	4	3	2	1	0	
Grai.	17	10	4	21	15	8	2	19	13	6	0
D.wt.	2	5	8	10	13	16	19	1	4	7	10
Ounc.	0	0	0	0	0	0	0	1	1	1	1

Parts.	2	4	6	8	10	12	14	16	18	20	0
Mite.	9	8	7	6	5	4	3	2	1	0	
Grai.	17	10	4	21	15	8	2	19	13	6	0
D.wt.	2	5	8	10	13	16	19	1	4	7	10
Ounc.	0	0	0	0	0	0	0	1	1	1	1

L.wt.	1	2	3	4	5	6	7	8	9	10	11	20	30
Ounc.	1	3	4	6	8	9	11	13	14	16	18	32	49
D.wt.	12	5	8	10	3	16	9	1	14	7	0	14	1
Grai.	17	10	4	21	15	8	2	19	13	6	0	13	19
Mite.	9	8	7	6	5	4	3	2	1	0		1	12
Parts.	2	4	6	8	10	12	14	16	18	20	0	18	16

Parts.	8	6	4	2	0	18	16	14	12	10	8	6	4
Mite.	1	3	5	7	9	10	12	14	16	18	0	1	3
Grai.	4	12	20	4	12	20	4	12	20	4	12	20	4
D.wt.	0	0	0	0	0	1	1	1	1	1	1	1	1

Grai.	18	6	12	18									
D.wt.	13	15	16	17	18								
						xvj	viij	iiij	ij	j			

Parts.	0	8	14	10	6								
Mite.	0	1	3	5	7								
Grai.	21	1	5	9	13	2	1	0					
D.wt.	1	2	2	2	2								
						3	1	0	5	2			

Parts.	8	14	10	6	2	20	16	12	8	4			
Mite.	1	3	5	7	9	10	12	14	16	18			
Grai.	4	12	16	20	0	4	8	12	16	20	0	4	8
D.wt.	0	0	0	0	1	1	1	1	1	1	1	1	1

Grai.	6	12	18	6	12	18	6	12	18	6	12	18	6
D.wt.	1	2	3	5	6	7	8	10	11	12			

Four Carracts. *At the* Ounce.

L.wt.	Ounc.	D.wt.	Grai.	Mite.	Parts.
1	2	3	15	5	10
2	4	7	6	10	20
3	6	10	21	16	8
4	8	14	13	1	18
5	10	18	4	7	6
6	13	01	19	12	10
7	15	5	10	18	4
8	17	9	2	3	14
9	19	12	17	9	2
10	21	16	8	14	12
11	24	0	0	0	0
20	43	12	17	9	2
30	65	9	2	3	14

Ounc.	D.wt.	Grai.	Mite.	Parts.
0	3	15	5	10
0	7	6	10	20
0	10	21	16	8
0	14	13	1	18
0	18	4	7	6
1	1	19	12	16
1	5	10	18	4
1	9	2	3	14
1	12	17	9	2
1	16	8	14	12
2	0	0	0	0

d.wt.	Grai.
1	6
2	12
3	18
5	
6	6
7	12
8	18
10	
11	6
12	12
13	18

d.wt.	Grai.	Mite.	Part.
0	5	0	2
0	10	18	4
0	16	7	6
0	21	16	8
1	3	5	10
1	8	14	12
1	1	3	14
1	19	12	16
2	1	1	18
2	6	10	20
2	12	0	0

d.wt.	Grai.
15	0
16	6
17	12
18	18
xvj	gr.
viij	gr.
vj.	gr.
iiij	gr.
ij	gr.
j	gr.

D.wt.	Grai.	Mite.	Part.
2	17	9	2
2	22	18	4
3	4	7	6
3	9	16	8
	gr	mi	pt.
		18	4
	1	9	2
	1	3	4
	0	14	12
	0	7	6
	0	3	14

Four Ingots of GOLD.

	Car. Gra.	*L.wt.Oz.D.wt.Gr.*
Better.	1, 1, ½. Num. 1,	4, 6, 10, 00.
Worſn.	1, 0, ½. Num. 2,	3, 7, 5, 00.
Worſn.	1, 2, ¾. Num. 3,	6, 9, 10, 00.
Better.	1, 1, 0, Num. 4,	8, 11, 00, 00.
		23, 10, 5, 00.

	Oz.	*D.wt.*	*Gra.*	*Mit.*
Betterneſs of Num. 1,	3,	8,	3.	
Betterneſs of Num. 4,	6,	1,	14.	
Whole betterneſs,	9,	9,	17,	3.

	Oz.	*D.wt.*	*Gra.*	*Mit.*
Worſeneſs of Num. 2.	2.	4,	5,	11.
Worſneſs of Num. 3.	6,	5,	00,	13.
Whole Worſneſs,	8,	9,	6,	4,

Worſneſs deducted out of the betterneſs, reſts { *Oz.* 1. | *Gra.* 0, | *Mites.* 10, 19.

So this - 1 *Oz.* 00 *D.wt.* 11 *Grains.*
Added to 23, l.*wt.* 10, 5, 00.

	l.*wt.*	*Oz.*	d.*wt.*	*Gr.*
Makes the 4 Ingots to be Stan.	23,	11,	5,	11.

Queſtion

Queſtions wrought by the GOLDEN *Rule,*

For the Standard of 22 Carracts.

A Gold Ingot weighing 8 l.*wt.* 6 *Oz.* 16 d.*wt.* worſe — 1 *Carract*, 2 *Grains* 3 *quarters*; What will this amount to in Standard Gold?

The Work.

Car.	*Gra.*		*L.wt.*	*Oz.*	*D. wt.*	*Gra.*	*Mite.*
22,	—	Z	— 8,	6,	16,		
1,	- 2 ¼.		——— - 7,	17,	16,	18.	

Thus 7 *Ounces*, 17, d.*wt.* 16 *Grains* 18 *Mites.*
Deducted out of —.- 8 l.*wt.* 6 *Ounces* 16 d.*wt.*
Reſteth, - 7 l.*wt.* 10 *Oz.* 18 d.*wt.* 7 *Gra.* 2 *Mites.*
The Standard required.

AN Ingot of Gold weighing 8 l. *wt.* 6 *Oz.* 16 d. *w.* worſe -- 1 *Carract*, 2 *Gr.* 3 *quarter.* How much of -- 1 *Carract*, 1 *Grain* better, will make it good to the Standard of 22 *Carracts.*

The Work.

	Car.	*Gra.*		*L. wt.*	*Oz.*	*D. wt.*	*Gra.*
Worſe,	1,	2, 1/4.	Z	8,	6,	16.	
Better,	1,	1.		11,	6,	15,	14.

This is wrought by the back Rule.

A Gold Ingot weighing — 8 *Pound* weight worſe, — 2 *Car.* — 1 *Grain.*

How much is to be taken thereof and fined to 1 *Car.* — 3 *Grains* better to make good the reſt to the Standard of — 22 *Car.*

The Work.

Car.Gr.	*L.wt.*	*Ca.Gr.*	*l.wt.oz.d.wt.gr.*
1, 1.	8,	23, 3.	10, 3, 8, 14.
1, 3.	10, 3, 8, 14.	19. 3.	12, 4, 8, 13.

8,	*l.Oz.d.wt.gr.*	*L.wt.Oz.d.wt.gr.*
12, 4, 8, 12.	20, 4, 8, 13,	12, 4, 8, 13.
20, 4, 8, 13.	8, 0, 0, 0.	4, 10, 5, 22.
So there is to be fined. —		4, 10, 5, 22.

The ſame Queſtion wrought thus.

Ca.Gr.	*Ca.gr.*	*Ca.gr.*	*Lwt.Oz.D.wt.*	*Gr.*
19, 3.	1, 3.	23, 3.	8,	
23, 3	2, 1.	22, 0,	8, 7, 12,	18.
	4.	4, 0	8, 7, 12,	18.
		2, 1.	4, 10, 5,	22.

So by this way there is to be fined, } *L.wt.* 4, *Oz.* 10, *D.wt.* 5, *Gra.* 22.

Gold

Pound-wt.	Gold. Quarter of a Grain.						
	•	•	•	•	•	•	•
1	0	3	4	0	9	0	9
2	0	6	8	1	8	1	8
3	1	0	2	2	7	2	7
4	1	3	6	3	6	3	6
5	1	7	0	4	5	4	5
6	2	0	4	5	4	5	4
7	2	3	8	6	3	6	3
8	2	7	2	7	2	7	2
9	3	0	6	8	1	8	1

Ounces.	Gold. Quarter of a Grian.						
	•	•	•	•	•	•	•
1	0	0	2	8	4	0	9
2	0	0	5	6	8	1	8
3	0	0	8	5	2	2	7
4	0	1	1	3	6	3	6
5	0	1	4	2	0	4	5
6	0	1	7	0	4	5	4
7	0	1	9	8	8	5	3
8	0	2	2	7	2	7	2
9	0	2	5	5	6	8	1

D.wt.							
	•	•	•	•	•	•	•
1	0	0	0	1	4	2	0
2	0	0	0	2	8	4	1
3	0	0	0	4	2	6	1
4	0	0	0	5	6	8	2
5	0	0	0	7	1	0	2
6	0	0	0	8	5	2	2
7	0	0	0	9	9	4	2
8	0	0	1	1	3	6	3
9	0	0	1	2	7	8	4

Grn.							
	•	•	•	•	•	•	•
1	0	0	0	0	0	5	9
2	0	0	0	0	1	1	8
3	0	0	0	0	1	7	7
4	0	0	0	0	2	3	7
5	0	0	0	0	2	9	6
6	0	0	0	0	3	5	5
7	0	0	0	0	4	1	4
8	0	0	0	0	4	7	3
9	0	0	0	0	5	3	3

Gold.

Parts of an Ounce		Quarter of a Grain.							Quarter of a Grian.							
D.	wt.	Gr							D.	wt.	Gr					
1	6		0	0	0	1	7	7	5	11	6	0	0	1	5	9	8	0
2	12		0	0	0	3	5	5	1	12	12	0	0	1	7	7	5	5
3	18		0	0	0	5	3	2	6	13	18	0	0	1	9	5	3	1
5			0	0	0	7	1	0	2	15		0	0	2	1	3	0	6
6	6		0	0	0	8	8	7	8	16	6	0	0	2	3	0	8	2
7	12		0	0	1	0	6	5	3	17	12	0	0	2	4	8	5	8
8	18		0	0	1	2	4	2	9	18	18	0	0	2	6	6	3	3
10			0	0	1	4	2	9	4									

Primes	Peny-wt	Mites Grains Peny-wt Seconds	Thirds.	Miter Grains	Mites Fourth
1	2	0. 4.16	1	0. 9	1 1
2	4	0. 9.12	2	0.19	2 2
3	6	0.14. 8	3	1. 9	3 3
4	8	0 19. 4	4	1.18	4 4
5	10	1.00. 0	5	2. 8	5 5
6	12	1. 4.16	6	2.18	6 6
7	14	1. 9.12	7	3. 7	7 7
8	16	1.14. 8	8	3.17	8 8
9	18	1.19. 4	9	4. 6	9 9

Here followeth TABLES for GOLD to this purpoſe, to find what *Pound-weight*, *Ounces* and *Parts*, ſhould be of Betterneſs or Worſeneſs.

Quart.	gr.	1 Dt.	1 Gr.	2 Dt.	2 Gr.	3 Dt.	3 Gr.	4 Dt.	4 Gr.
1		0	15	1	6	1	21	2	12
2		1	6	2	12	3	18	5	
3		1	21	3	18	5	15	7	12
0		2	12	5		7	12	10	
1	gr. 1	3	3	6	6	9	9	12	12
2		3	18	7	12	11	6	15	
3		4	9	8	18	13	3	17	12
0		5	0	10		15	0	1 0	0
1	gr. 2	5	15	11	6	26	21	1 2	12
2		5	6	12	12	18	18	1 5	
3		6	21	13	18	0	15	1 7	12
0		7	12	15		2	12	1 10	
1	gr. 3	8	3	16	6	4	9	1 12	12
2		8	18	17	12	6	6	1 15	
3		9	9	18	18	8	3	1 17	12
0		10		0	0	10	0	2 0	
1	gr. 0	10	15	1	6	11	21	2 2	12
2		11	6	2	12	13	18	2 5	
3		11	21	3	18	15	15	2 7	12
0		12	12	5		17	12	2 10	
1	gr. 1	13	3	6	6	19	9	2 12	12
2		13	18	7	12	1	6	2 15	
3		14	9	8	18	3	3	2 17	12
0		15	0	10		5		3	
1	gr. 2	15	15	11	6	6	21	3 2	12
2		16	6	12	12	8	18	3 5	
3		16	21	13	18	10	15	3 7	12
0		17	12	15		12	12	3 10	
1	gr. 3	18	3	16	6	14	9	3 12	12
2		18	18	17	12	16	6	3 15	
3		19	9	18	18	18	3	3 17	12

Ounces.

1	0	0	
1	2	12	
1	5		
1	7	12	
1	10		
1	12	12	
1	15		
1	17	12	
2	0		
2	2	12	
2	5		
2	7	12	
2	10		
2	12	12	
2	15		
2	17	12	
3			
3	2	12	
3	5		
3	7	12	
3	10		
3	12	12	
3	15		
3	17	12	

Ounces.

1	0	0	
1	2	12	
1	5		
1	7	12	
1	10		
1	12	12	
1	15		
1	17	12	
2	0		
2	2	12	
2	5		
2	7	12	
2	10		
2	12	12	
2	15		
2	17	12	
3			
3	2	12	
3	5		
3	7	12	
3	10		
3	12	12	
3	15		
3	17	12	

C. 1 C. 1 C. 1 C. 1

Quart.			5 Dt.	5 Gr.	6 Dt.	6 Gr.	7 Dt.	7 Gr.	8 Dt.	8 Gr.
		1		3		3		4		5
		2		6		7		8		10
		3		9		11		13		15
	gr.	0	Ounces 12	12	Oueces 15	9	Ounces 17	12	1	0
		1	15	15	18	18	1	1	21	1	5
	1	2	18	18	1	2	12	1	6	6	1	10
		3	1	21	1	6	6	1	10	15	1	15
	gr.	0	1	5	0	1	10	0	1	15	0	2	
		1	1	8	3	1	13	18	1	19	9	2	5
	2	2	1	11	6	1	17	12	2	3	18	2	10
		3	1	14	9	2	1	6	2	8	3	2	15
	gr.	0	1	17	12	2	5	0	2	12	12	3	0
		1	2	0	15	2	8	18	2	16	21	3	5
	3	2	2	3	18	2	12	12	3	1	6	3	10
		3	2	6	21	2	16	6	3	5	15	3	15
C.	gr.	0	2	10	0	3	0	0	3	10	0	4	0
		1	2	13	3	3	3	18	3	14	9	4	5
1	0	2	2	16	6	3	7	12	3	18	18	4	10
		3	2	9	9	3	11	6	4	3	3	4	15
C.	gr.	0	3	2	12	3	15	0	4	7	12	5	0
		1	3	5	15	3	18	18	4	11	21	5	5
1	1	2	3	8	18	4	2	12	4	16	6	5	10
		3	3	11	21	4	6	6	5	0	15	5	15
C.	gr.	0	3	15	0	4	10	0	5	5	0	6	0
		1	3	18	3	4	13	18	5	9	9	6	5
1	2	2	4	1	6	4	17	12	5	13	18	6	10
		3	4	4	9	5	1	6	5	18	3	6	15
C.	gr.	0	4	7	12	5	5	0	6	2	12	7	0
		1	4	10	15	5	8	18	6	6	21	7	5
1	3	2	4	13	18	5	12	12	6	18	6	7	10
		3	4	16	21	5	16	6	6	25	15	7	15

		Quart.	9 Ounces.	Dt.	Gr.	10 Ounces.	Dt.	Gr.	11 Ounces.	Dt	Gr.
		1		5	15		6	6		6	21
		2		11	6		12	12		13	18
		3		16	21		18	18		1 0	15
	gr.	0	1	2	12	1	5		1	7	22
	1	1	1	8	3	1	11	6	1	14	9
		2	1	13	18	1	17	12	2	1	6
		3	1	19	9	2	3	18	2	8	3
	gr.	0	2	5	0	2	10		2	15	0
	2	1	2	10	15	2	16	6	3	1	21
		2	2	6	6	3	2	12	3	8	18
		3	3	1	21	3	8	18	3	15	15
	gr.	0	3	7	12	3	15		4	2	12
	3	1	3	13	3	4	1	6	4	9	9
		2	3	18	18	4	7	12	4	16	6
		3	4	4	9	4	13	18	5	3	3
C.	gr.	0	4	10		5	0		5	10	0
1	0	1	4	15	15	5	6	6	5	16	21
		2	5	1	6	5	12	12	6	3	18
		3	5	6	21	5	18	18	6	10	15
C.	gr.	0	5	12	12	6	5		6	17	12
1	1	1	5	18	3	6	11	6	7	4	9
		2	6	3	18	6	17	12	7	11	6
		3	6	9	9	7	3	18	7	18	3
C.	gr.	0	6	15	0	7	10		8	5	
1	2	1	7	0	15	7	16	6	8	11	21
		2	7	6	6	8	2	12	8	18	18
		3	7	11	21	8	8	18	9	5	15
C.	gr.	0	7	17	12	8	15		9	12	12
1	3	1	8	3	3	9	1	6	9	19	9
		2	8	8	18	9	7	12	10	6	6
		3	8	14	9	9	13	18	10	13	3

1		2		3		4
Gr.	Mit	Gr.	Mit	Gr.	Mit	Gra.
1	5	2	10	3	15	5
2	10	5	0	7	10	10
3	15	7	10	11	5	15
5	0	10	0	15	0	20
6	5	12	10	18	15	Peny-wt 1
7	10	15	0	22	10	1 6
8	15	17	10	1	2 5	1 11
10	0	20	0	1	6	1 16
11	5	22	10	1	9 15	1 21
12	10	1		1	13 10	2 2
13	15	1	3 10	1	17 5	2 7
15	0	1	6 0	1	21 0	2 12
16	5	1	8 10	2	0 15	2 17
17	10	1	11	2	4 10	2 21
18	15	1	13 10	2	8 5	3 3
20	0	1	16 0	2	12 0	3 8
21	5	1	18 10	2	15 15	3 13
22	10	1	21	2	19 10	3 18
23	15	1	23 10	2	23 5	3 23
Peny-wt. 1	0	2	2 0	3	3 0	4 4
1	2 5	2	4 10	3	6 15	4 9
1	3 10	2	7	3	10 10	4 14
1	4 15	2	9 10	3	14 5	4 19
1	6 0	2	12 0	3	18 0	5 0
1	7 5	2	14 10	3	21 15	5 5
1	8 10	2	17	4	1 10	5 10
1	9 15	2	19 10	4	5 5	5 15
1	11 0	2	22 0	4	9 0	5 20
1	12 5	3	0 10	4	12 15	6 1
1	13 10	3	3 0	4	16 10	6 6
1	14 15	3	5 10	4	20 5	6 11

Quart	gr. 1	gr. 2	gr. 3	C. gr. 0	C. gr. 1	C. gr. 2	C. gr. 3
1	0	0	0	0	0	0	0
2	1	1	1	1	1	1	1
3	2	2	2	2	2	2	2
0	3	3	3	3	3	3	3
1	0	0	0	0	0	0	0
2	1	1	1	1	1	1	1
3	2	2	2	2	2	2	2
0	3	3	3	3	3	3	3
1	0	0	0	0	0	0	0
2	1	1	1	1	1	1	1
3	2	2	2	2	2	2	2
0	3	3	3	3	3	3	3
1	0	0	0	0	0	0	0
2	1	1	1	1	1	1	1
3	2	2	2	2	2	2	2

Quart		5		6		7		8	
		Gr.	Mit	Gr.	Mit	Gr.	Mit	Peny-wt	Gra.
			6	5	7	10	8	15	10
	2		12	10	15	0	17	10	20
	3		18	15	22	10	2	5	1 6
gr.	0	penywt 1	2	0	Peny-wt 1 6	0	Peny-wt 1 11	0	1 16
1	1	1	7	5	1 13	10	1 19	15	2 2
	2	1	13	10	1 21	0	2 4	10	2 12
	3	1	19	15	2 4	10	2 13	5	2 22
gr.	0	2	2	0	2 12	0	2 22		3 8
2	1	2	8	5	2 19	10	3 6	15	3 18
	2	2	14	10	3 3		3 15	10	4 4
	3	2	20	15	3 10	10	4 0	5	4 14
gr.	0	3	3	0	3 18	0	4 9		5 0
3	1	3	9	5	4 1	10	4 17	15	5 10
	2	3	15	10	4 9		5 2	10	5 20
	3	3	21	15	4 16	10	5 11	5	6 6
Cw. gr.	0	4	4	0	5 0	0	5 20	0	6 16
1 0	1	4	10	5	5 7	10	6 4	15	7 2
	2	4	16	10	5 15		6 13	10	7 12
	3	4	22	15	5 22	10	6 22	5	7 22
Cw. gr.	0	5	5		6 6	0	7 7		8 8
1 1	1	5	11	5	6 13	10	7 15	15	8 18
	2	5	17	10	6 21		8 0	10	9 4
	3	5	23	15	7 4	10	8 9	5	9 14
Cw. gr.	0	6	6	0	7 12	0	8 18	0	10 0
1 2	1	6	12	5	7 19	10	9 2	15	10 10
	2	6	18	10	8 3		9 11	10	10 20
	3	7	00	15	8 10	10	9 20	5	11 6
Cw. gr.	0	7	7	0	8 18	0	10 5	0	11 16
1 3	1	7	13	5	9 21	10	10 13	15	12 2
	2	7	19	10	9 9	0	10 22	10	12 12
	3	8	1	15	9 16	10	11 7	5	12 22

Quart.			9			10			11		
			Dwt.	Gr.	Mit	Dwt.	Gr.	Mit	Dwt.	Gr.	Mit
1				11	5		12	10		13	15
2				22	10	1	1	0	1	3	10
3			1	9	15	1	13	10	1	17	5
0			1	21	0	2	2		2	7	0
1		gr. 1	2	8	5	2	14	10	2	20	15
2			2	19	10	3	3		3	10	1
3			3	6	15	3	15	10	4	0	5
0			3	18	0	4	4		4	14	0
1		gr. 2	4	5	5	4	16	10	5	3	15
2			4	16	10	5	5		5	17	10
3			5	3	15	5	17	10	6	7	5
0			5	15	0	6	6		6	21	0
1		gr. 3	6	2	5	6	18	10	7	10	15
2			6	13	10	7	7		8	0	10
3			7	0	15	7	19	10	8	14	5
0	C. 1	gr. 0	7	12	0	8	8		9	4	0
1			7	23	5	8	20	10	9	17	15
2			8	10	10	9	9		10	7	10
3			8	21	15	9	21	10	10	21	5
0	C. 1	gr. 1	9	9	0	10	10		11	11	0
1			9	20	5	10	22	10	12	0	15
2			10	7	10	11	11		12	14	1
3			10	18	15	11	23	10	13	4	5
0	C. 1	gr. 2	11	6	0	12	12		13	18	0
1			11	17	5	13	0	10	14	7	15
2			12	4	10	13	13		14	21	10
3			12	15	15	14	1	10	15	11	5
0	C. 1	gr. 3	13	3	0	14	14		16	1	0
1			13	14	5	15	2	10	16	14	15
2			14	1	10	15	15		17	4	10
3			14	12	15	16	3	10	17	18	5

Gold.

	Quart.	1 d. 6 gr. Mit.	Dr.	2 d. 12 g. Mi	Dr.	3 d. 18 g. Mit.	Dr.	5 d. wt. Mi.	Dr.
	1	1	13½	3	3	4	16½	6	6
	2	3	3	6	6	9	9	12	12
	3	4	16½	9	9	14	1½	18	18
gr. 1	0	6	6	12	12	18	18	5	0
	1	7	19½	15	15	3	10½	11	6
	2	9	9	18	18	8	3	17	12
	3	10	22½	1	21	12	19½	3	18
gr. 2	0	12	12	5	0	17	12	10	0
	1	14	1½	8	3	2	4½	16	6
	2	15	15	11	6	6	21	2	12
	3	17	4½	14	9	11	13½	8	18
gr. 3	0	18	18	17	12	16	6	15	0
	1	0	7½	0	15	0	22½	1	6
	2	1	21	3	18	5	15	7	12
	3	3	10½	6	21	10	7½	13	18
C. gr. 1 0	0	5	0	10	0	15	0	0	0
	1	6	13½	13	3	19	16½	6	6
	2	8	3	16	6	9	9	12	12
	3	9	16½	19	9	9	1½	18	18
C. gr. 1 1	0	11	6	2	12	13	18	5	0
	1	12	19½	5	15	18	10½	11	6
	2	14	9	8	18	3	3	17	12
	3	15	21½	11	21	7	19½	3	18
C. gr. 1 2	0	17	12	15	0	12	12	10	0
	1	19	1½	18	3	17	4½	16	6
	2	0	15	1	6	1	21	2	12
	3	2	4½	4	9	6	13½	8	18
C. gr. 1 3	0	3	18	7	12	11	6	15	0
	0	5	7½	10	15	15	22½	1	6
	2	6	21	13	18	0	15	7	12
	3	8	10½	16	21	5	7½	13	18

Quart.		6 d. 6 gr.			7 d. 12 g.			8 d. 18 g.			10 d. wt.		
		Grains.	Mit.	Dr.	Grians.	Mi.	Dr.	Grai.	Mir.	Dr.	Grai.	Mi.	Dr.
	1		7	19½		9	9		10	22½		12	11
	2		15	15		18	18	1	1	21	1	5	0
	3	1	3	10½	1	8	3	1	12	19½	1	17	12
gr. 1	0	1	11	6	1	17	12	2	3	18	2	10	0
	1	1	19	1½	2	6	21	2	14	16½	3	2	11
	2	2	6	21	2	16	6	3	5	15	3	15	0
	3	2	14	16½	3	5	15	3	16	13½	4	7	12
gr. 2	0	3	2	12	3	15	0	4	7	12	5	0	0
	1	3	10	7½	4	4	9	4	18	10½	5	12	12
	2	3	18	3	4	13	18	5	9	9	6	5	0
	3	4	5	22½	5	3	3	6	0	7½	6	17	12
gr. 3	0	4	13	18	5	12	12	6	11	6	7	10	0
	1	5	1	13½	6	1	21	7	2	4½	8	2	12
	2	5	9	9	6	11	6	7	13	3	8	15	0
	3	5	17	4½	7	0	15	8	4	1½	9	7	12
C. gr. 0	0	6	5	0	7	10	0	8	15	0	10	0	0
	1	6	12	19½	7	19	9	9	5	22½	10	12	11
I	2	7	0	15	8	8	18	9	16	21	11	5	0
	3	7	8	10½	8	18	3	10	7	19½	11	17	11
C. gr.	0	7	16	6	9	7	12	10	18	18	12	10	0
	1	8	4	1½	9	16	21	11	9	16½	13	2	12
I	2	8	11	21	10	6	6	11	0	15	14	15	0
	3	8	19	16½	10	15	15	12	11	13½	14	7	12
C. gr.	0	9	7	12	11	5	0	13	2	12	15	0	0
	1	9	15	7½	11	14	9	13	13	10½	15	12	12
I	2	10	3	3	12	3	18	14	4	9	16	5	0
	3	10	10	22½	12	13	3	14	15	7½	6	17	12
C. gr.	0	10	18	18½	13	2	12	15	6	6	17	10	0
	1	11	6	13½	13	11	21	15	17	4½	18	2	12
I	2	11	14	9	14	1	6	16	8	3	18	15	0
	3	12	2	4½	14	10	15	16	19	1½	20	7	12

A TABLE for the Addition of GOLD, rating by the common way.

Gold. Oz	Ounces.	D.wt.	Grai.	Mite.	(11) Parts.
1		1	19	12	8
2		3	15	5	5
3		5	10	18	2
4		7	6	10	10
5		9	2	3	7
6		10	21	16	4
7		12	17	9	1
8		14	13	1	9
9		16	8	14	6
10		18	4	7	3
11	1	0	0	00	0
20	1	16	8	14	6
30	2	14	13	11	9
40	3	12	17	9	1
50	4	10	21	16	4
60	5	9	2	3	0
70	6	7	0	10	10
80	7	5	10	18	2
90	8	3	15	5	5
100	9	1	19	12	8
200	18	3	15	5	5
300	27	5	10	18	2
400	36	7	6	10	10
500	45	9	2	3	7
600	54	10	21	16	4

D.wt.	Grai.	(11) Mite.	Parts.
1	2	3	7
2	4	7	3
3	6	10	10
4	8	14	6
5	10	18	2
6	13	1	9
7	15	5	5
8	17	9	1
9	19	12	8
10	21	16	4
11	1	0	0
12	1	2	3
13	1	4	7
14	1	6	10
15	1	8	14
16	1	10	18
17	1	13	1
18	1	15	5
19	1	17	9

Grains.	(11) Mite.	Parts.
1	1	9
	3	7
	5	5
	7	3
	9	1
	10	10
	12	8
	14	6
	16	4
	18	2
1	0	0
1	1	9
1	3	7
1	5	5
1	7	3
1	9	1
1	10	10
1	12	8
1	14	6
1	16	4
1	18	2
2	0	0
2	1	9

see page 221

THE foregoing Tables were compoſed by *John Reynolds*, Aſſay-Maſter of the Mint in the Tower of *London*, and this Impreſſion is from a Printed Copy corrected by him, with his hand to it to teſtifie the ſame; and are chiefly calculated for the making Gold or Silver (that is of any Allay) to the Standard goodneſs: (that is to ſay) If it be better than Standard, thoſe Tables do clearly ſhew how much Allay muſt be put in each pound, and ounce, and peny weight, to make it Standard: And if it be worſe than Standard, thoſe Tables do clearly ſhew how much of betterneſs of Gold or Silver, will make that courſe Gold or Silver, by the pound, ounce, and peny weight, to be of Standard goodneſs.

The Tables for Silver, are to be known by the Titles at the top of each Page, the words are thus, (to wit) *Half-peny weight*, *Peny weight*, *Peny half-peny weight*, and ſo on to eleven ounces. Which Silver Tables in every page, are divided into four parcels of Columns, (that is to ſay) The firſt parcel on the left hand (from the top to bottom) ſhew the betterneſs or worſeneſs of pound weights, from 1 pound to 500 pound weight *Troy*.

The ſecond parcel of Columns are thoſe on the right hand of that page, on the upper part, and ſhew the betterneſs or worſeneſs of ounces, from 1 ounce to 11 ounces *Troy*.

The third parcel of Columns are thoſe under the laſt mentioned Columns, and ſhew the betterneſs or worſeneſs of peny-weights, from 1 *dwt.* 6 *grs.* to 17 *dwt.* 12 *grs.* *Troy*.

The

The fourth parcel of Columns, are thoſe under the laſt mentioned Columns, and ſhew the betterneſs or worſeneſs of the weight, from 1 *dwt.* to 4 *grs. Troy.*

At the head of every Column is its Signiture, (to wit) *l.wt. ounce, dwt. grains, mites, parts,* according as the Column is to ſignifie. This being mentioned, a ſerious and ingenuous peruſal of the Tables, will make it clearly manifeſt.

Another uſe of them I will more clearly demonſtrate, (that is) to make the weight for the Aſſay-Standard; and alſo to make ſeveral weights to compute the juſt value of any ſort of Silver by the Aſſay: To which purpoſe it may be obſerved, that in the foregoing Treatiſe, the *Touch-Stone, &c.* in *page* 30 and 31. is an account of the materials uſed for making Aſſays, * amongſt which there is mention made of thoſe weights, which Standard-weight may be made of different quantities, as to weigh 1 *dwt.* or 18 *grains.* or 12 *grains*, or 6 *grains*, and the computing-weights muſt be anſwerable to which ſoever of them you uſe; all which is clearly compriſed in the ſaid Tables.

* *For the better inſtructing the ingenious Reader to make Aſſays of Gold and Silver, and the ſeveral materials uſed therein. See the Treatiſe Intituled the* Compleat Chymiſt, *written in French by* Chriſt. Glaſer, *and Engliſhed by a Fellow of the* Royal Society. *Printed for* John Starkey *at the* Miter *in* Fleetſtreet *near* Temple-Bar.

The uſual Standard-weight is made of Braſs, and in weight 12 *grains*; which number you may find in the laſt parcel of Columns in that page, at the head of which are theſe words, (to wit) *Eighteen peny weight*, in which ſaid laſt parcel in the ſecond Column, the laſt number (except four)

four) is that number, 12 *grains*. The reaſon for chuſing that number in the Column in that page, is this, (to wit) for that there is *Eighteen peny weight* of Allay, in a pound weight of Standard Silver; and for that reaſon all ſorts of Standard Aſſay-weights, muſt be of the numbers in that page, for right againſt each number, there is their weight of Allay for Standard.

The next, is the weight for the Allay that is in 12 *grains* of Standard Silver, which you have right againſt the ſaid 12 *grains* on the right hand of it, and is 19 *mites*, 17 *parts*.

The next weight, for *half-peny weight* better or worſe, is in the page under that *Title*, in the laſt parcel of Columns againſt 12 *grains*, on the right hand, and is 16 *parts*.

The next weight, for *a peny weight* better or worſe, is in the page under that *Title*, in the laſt parcel of Columns againſt the ſaid 12 *grains*, on the right hand, and is 1 *mite*, 3 *parts*.

The next weight, for a *peny half-peny weight* better or worſe, is in the page under that *Title*, in the laſt parcel of Columns againſt the ſaid 12 *grains*, on the right hand, and is 1 *mite*, 23 *parts*.

And ſo ſeveral weights of the ſeveral degrees of betterneſs or worſeneſs, which by what I have mentioned of the three pages, may be eaſily made by the reſt of the pages, wherein they are ſet down againſt the ſaid 12 *grains*, on the right hand.

Note that 37 *parts* is accounted a *mite*, in the Silver Tables, and 22 *parts* is accounted a *mite* in the Gold Tables.

To

To make an Aſſay of Silver, the manner is thus: Firſt, having all the Materials and Inſtruments mentioned in the *Touch-Stone*, *pag.* 30 and 31. (and what other Tools, *&c.* an ingenuous perſon will ſee needfull) good and readily provided, and the Fire kindled, and Furnace hot; then take the weight of the aforeſaid Standard-weight of the Silver that you would Aſſay, (it being clean from all filth) and alſo part of a clean flatted Lead Bullet, as much as by experience you will ſee convenient, (for the courſer the Silver, the bigger muſt be the quantity of Lead to Refine it) put that Silver and the Lead on the Cople or Teſt into the Fire, and it will Refine the Silver to the higheſt degree of fineneſs; then take the Cople and Silver out of the Fire, and put the Silver (being knockt clean) into one Pan of the fine Scales, and in the other Pan put the Standard-weight; then if the Silver from which it was taken *be Sterling*, the waſte of the Aſſay will be the weight 19 *mites*, 17 *parts*.

If the Silver from which it was taken be *a half-peny weight worſe*, then the waſte of the Aſſay will be the 19 *mites*, 17 *parts*, and alſo the weight 16 *parts*.

If the Silver from which it was taken is *half-peny weight better*, it will not be waſted the 19 *mites*, 17 *parts*, by the weight 16 *parts*.

And ſo proceeding further, as the Silver is waſted more or leſs, thoſe weights will diſcover its betterneſs or worſeneſs. And obſerve further, that the Standard-Aſſay-weight being in one Pan of the Scale, the weight of the Allay in 12 *grains* of Standard aforeſaid, muſt be always in the other

other Pan with the Refined Silver, and if that makes the Ballance even, then the Silver from which it was taken is Standard. If the weight for *half-peny weight* of betterneſs or worſeneſs, be put into the Pan with the Silver, and it make an even Ballance, then report the Silver worſe *ob.* If that weight be put in the Pan where the Standard-weight is, and it make an even Ballance, then report the Silver better *ob.* This rule holds good for all the reſt; and the Gauging-weights being laid orderly in rows in the glazed Scale-caſe, with the Nippers they may be readily taken up, and put into either Pan, and out again, as occaſion ſhall be.

What I have here diſcovered of the Silver Tables, will be ſufficient light to underſtand the Gold Tables, and how to make a Gold Aſſay: For the Gold Tables in the ſeveral pages of betterneſs or worſeneſs, are known by the Titles at the head of each page, by the words *Grains and Carracts*, and are increaſed by quarter-grains each page, from a quarter of a Carract grain, to four Carracts, and are every page divided into four parcels of Columns, and ſhews what Allay is in every ſort of Gold, from one *Troy*-grain, to 30 *l.wt.* But to enlarge further, will ſwell this Book too much; therefore my advice is, that you ſtudiouſly and frequently peruſe the foregoing Treatiſe and Tables, which with ingenious practice, will make you an Artiſt herein. And I wiſh (where there is one now well-skill'd in making Aſſays of Gold and Silver) that there were a hundred; for all Rules and Arts for preventing publick deceit, ought (if poſſible) to be made ſo

practi-

practicable, that every capacity may be capable thereof. To which purpoſe note further,

That the manner of making the aforeſaid *Coples* or *Teſts*, is thus: Take of Sheeps-bones that are burnt very white, beat and ſift them to a fine Powder, which moiſten with Water to ſuch a degree, that when well chaffed either between the hands, or with a piece of Board on a Table, that being graſped with the hand it will be clammy, and hold together without wetting or ſticking to the hand. Then take a round flat piece of Braſs, an inch thick, and three or four inches over, through the middle of which make a taper-round hole, the one end near as wide as a Five ſhilling piece of Silver, and the other end near as wide as a Half-Crown piece, which hole polliſh very ſmooth; lay this Braſs on a level Anvil, the wideſt end of the hole uppermoſt, and fill the hole with the ſaid moiſtned Bone-aſhes, and preſs it hard with your hand: Then with a Driſt-pin of Braſs made Globical at the lower end, and a ſhoulder round it to reſt upon the edge of the hole, to keep the ſaid round end from running in too far, which Driſt-pin force down (with a Wood Mallet) on the ſaid Bone-aſhes in the ſaid hole, and if well done it will unite the Bone-aſhes into a Cople, and the top thereof will be hollow like the Veſſel called a Skimming-diſh; then with your thumb thruſt the ſaid Cople whole out of the Braſs hole, and ſet it (with as many of them as you will make) on a looſe Board on a Shelf, and when thorow dry they will be hard, and when uſed, either kindle the Fire (or put them into it) by degrees, to prevent their cracking or cleaving.

The Assay-Furnace is made either with Brick upon a Chimney-hearth, or in an Iron Case (thick and well luted) removable to any place at pleasure, the inside round or square, about 6 or 7 inches over, and about 20 inches high; at the bottom must be an Air-hole 5 or 6 inches wide, and 3 inches high; and about 8 inches high must be an Iron-grate fixed within, and even to it (over the other hole) must be another Air-hole about 3 inches square, (without which must be a space to lay some burning Coals) upon which Grate must be placed a *Muffle*, which may be made of a large three-square Crucible, with a hole (a quarter of an inch wide) in each side, and one such hole in the small end: or the *Muffle* may be made of broken Crucibles finely powdered, and tempered with a fifth part of Tobacco-pipe-clay, flat at bottom, and circular over, with 3 holes as the other; dry it well in the shade, and then neal it in a gentle Fire: The mouth of which *Muffles* must be closed with lute to the upper hole, resting upon the Grate as aforesaid, and a space must be by the sides and farther end of the *Muffle*, sufficient to permit the Fire to be strong on the Grate as above the *Muffle*, and the Fire of Charcole always gently kindled, will not break the *Muffle*; and a Fire must be always before the mouth of the *Muffle*, to make the heat equal on the *Cople*. The Assay-Scales are made by the Scale-makers in St. *Annes*-lane, *London*, and must turn with the weight of the 740th part of a grain *Troy*.

Note, That when the Silver is Fined to the highest degree, when cold on the Cople it will appear bright, and clear from the least fully or darkish colour, and of the countenance of pure Tin.

Here

Here followeth a Catalogue of the Names of the ſeveral Foreign Gold and Silver Coins, that are brought into this Kingdom as Bullion, with the particular weight of each Coin, (except ſome few) and the particular Allay and Value of many of them, according to the aforeſaid Standard of 22 Carracts *and* 11 ounces 2 dwt. *accounting the Gold at* 4 l. *the ounce, and the Silver at* 5 s. *the ounce* Troy.

Theſe Gold Foreign Coins were Aſſayed in the Mint, and rated as Bullion, 1663.

Allay.				Weight.		Value.		
	Car.	*Gr.*		*dwt.*	*Gr.*	*l.*	*s.*	*d.*
worſe	0	0 ¼	French Piſtol	4	8	0	17	4
worſe	0	0 ¼	French Lewis	3	14	0	14	4
worſe	0	0 ¼	Holland Rider	6	10 ½	1	5	9
better	1	2	Hungary Ducket	2	6	0	9	8
worſe	0	0 ¼	Spaniſh Piſtol	4	8	0	17	4
worſe	0	2	Flanders Albertus	3	8	0	13	0
worſe	0	0 ¼	Double Sover. of Fland.	7	3 ½	1	8	6
worſe	0	1 ¾	Italian Piſtol	4	6	0	16	7
worſe	4	2 ¼	Gilder of Porthono	2	3	0	6	10
worſe	3	1 ¾	Gilder of Mathias Emp.	2	3	0	7	2
worſe	3	2 ¾	Gilder of Noremburgh	2	3	0	7	1
worſe	3	1	Half Cardinal Angel	1	20	0	6	4
better	1	3 ½	Cuckeene of Venice	2	5	0	9	7
Stand	0	0	A new Daniſh Coin with a Crown on the one ſide of it	3	20	0	15	4

The Allay and Value of these following Gold Coins are not come to hand, but are referred to the ingenious Reader to add.

Car.	*Gr.*		*dwt.*	*Gr.*
		Flemish Angel	3	6
		Castillion	2	23
		Crusadoes with long Cross	2	6
		Crusadoes with short Cross	2	6
		Crusadoes Portugal	2	16
		Flemish or Flanders Crown	2	5
		K. Philips Crown of Spain	2	5
		French Crown	2	5
		Ducket single of Spain	2	6
		Ducket double of Spain	4	12
		Ducket single of Rome	2	6½
		Ducket double of Rome	4	13
		Ducket of Florence	2	5
		Ducket of Valence	2	5
		Ducket of Aragon	2	6
		Ducket of Suevia	2	7
		Ducket of Turkey		
		Ducket of Hamburgh		
		Denning of Muscovy		
		New Floren Gild. of S. Andrew	2	2
		Old Gilder of S. Andrew	2	3
		Carolous Gilder	1	12
		Collen Gilder	2	2
		Horn Gilder	1	12
		St. Davids Gilder	2	2
		Saxon Gilder	2	2
		Philip Gilder	2	3
		Half Philip Gilder	1	1½

New

Car.	Gr.		dwt.	Gr.
		New Rider of Gilders	2	6
		Golden Lion	2	16
		Firſt part of it	0	21
		Second part of it	1	19
		Golden Gullen	2	6
		Golden Reniſh Gullen	2	8
		Mark of Bohemia		
		6 Marks of Suevia		
		Milreys	4	20
		½ Milreys	2	10
		Flemiſh Noble	4	10
		Single Piſtol	2	4½
		Double Piſtol	4	9
		Philip Real with Spread Eagle	2	6
		Philip Real of Spain	3	10
		Flemiſh Real called the Key		
		Shock of Bohemia		
		Sultan of Turkey		
		Zeclunes of Venice		

Theſe

These Silver Foreign Coins were Assayed in the Mint, and valued as Bullion, 1653.

Allay.				Weight.			Value.	
	oun.	dwt.		oun.	dwt.	gr.	s.	d.
worse	0	10	Holland Dollar	0	18	5	4	-4
worse	2	3	Lyon Dollar	0	17	18	3	-4½
better	0	4½	Duckatoon of Fland.	1	0	22	5	-4
worse	0	7½	Rixdoller of th'Empire	0	18	15	4	-5¼
Stand.	0	0	Mexica Real	0	17	12	4	-4⅓
better	0	1	Sevil Real	0	17	12	4	-4¼
worse	0	1	Old Cardecue	0	6	3½	1	-6¼
worse	0	0½	French Lewis	0	17	11	4	-4¼
worse	0	1½	Doub. Milrez of Port.	0	14	4	3	-6¼
worse	0	1	Single Milrez of Port.	0	7	2	1	-9
worse	0	1½	St. Mark of Venice	0	10	4	2	-6
worse	4	6	Double Dutch Stiver	0	1	0	0	-1¾
worse	0	12	Croſs Dollar	0	18	0	4	-2½
worse	2	0	Zealand Dollar	0	13	0	2	-7
worse	1	0	Old Philip Dollar	1	2	0	5	-0
worse	0	12½	Ferdinando Doll. 1623	0	18	6	4	-3
worse	0	10½	P. of Orange Dol. 1624	0	18	6	4	-3¾
worse	0	9½	Leopoldus Doll. 1624	0	18	2	4	-3¼
worse	0	10	Rodulphus Doll. 1607	0	18	7	4	-4
worse	0	4½	Maximilian Doll. 1616	0	18	2	4	-5
worse	0	13	Daniſh Dollar 1620	0	13	0	2	-11¼
worse	0	1	Portugal Teſtoon	0	5	0	1	-2¼
worse	0	0½	New ¼ of French Lewis	0	4	9	1	-1

By

BY the Printers default, the numbering the Pages of the foregoing Treatiſe, from page 218. to the latter end, are omitted; which (if they had been continued) would have been on this page the number 369. This is mentioned that the Reader may add all the numbers, and know if any Leaf be wanting: And if any Figure or Figures in *Reynolds* his Tables, do not appear diſcernible enough to be known, the Bookſeller for whom this Treatiſe is Printed hath the Copy, by which you may mend what is amiſs.

FINIS.